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Minister

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Oil and Gas Paper 8

by T.R. Carter and R.A. Trevail

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Petroleum Resources Section, Ontario Ministry of Natural Resources, London.

Introduction

Information contained within this report has been compiled from records submitted to the Petroleum Resources Section by licensed operators in compliance with the Petroleum Resources Act, R.S.O. 1980. Unless otherwise stated, all statistics and information reported are for the 1985 calendar year. Publication of annual reports are delayed one year due to the confidential status of exploratory well data incorporated within this report.

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I. Section Organization

The Petroleum Resources Section of the Ministry of Natural Resources operates under the authority of the Petroleum Resources Act, R.S.O. 1980. The Section enforces the regulations made under the Act, namely Regulation 752 – Exploration, Drilling and Production. The Section also administers Regulation 633 – Exploratory Licences and Leases for Oil and Natural Gas North of the Fifty–First Parallel of Latitude and Regulation 634 – Exploratory Licences and Production Leases for Natural Gas in Lake Erie, both made under the Mining Act. The Section is responsible for all matters related to the disposition of Crown owned rights as well as the regulation of the exploration, development, and production phases of the petroleum industry. It provides operational, geological/engineering, inspection, core and drill cuttings samples storage and cataloguing services for the oil and gas industry together with laboratory, computer, and research facilities.

Administration and engineering offices are located at 659 Exeter Road, London, Ontario. Key staff within the Petroleum Resources Section at that time are shown in Figure 1. Geological offices and sample repository facilities, known as the Petroleum Resources Laboratory, were located at 458 Central Avenue in London in 1985. The Laboratory and staff were moved to new facilities located adjacent to the administration and engineering offices at 659 Exeter Road in July of 1987.Inspection staff operate from the various Regional and District offices throughout the Province as shown in Figure 2.

PETROLEUM RESOURCES SECTION
ORGANIZATION CHART
1985

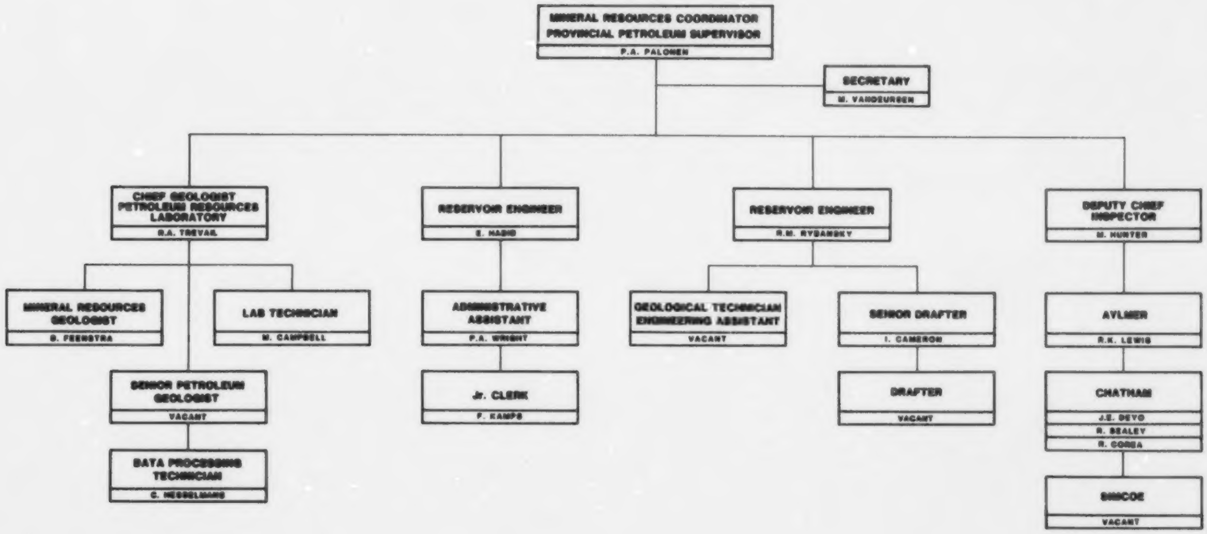
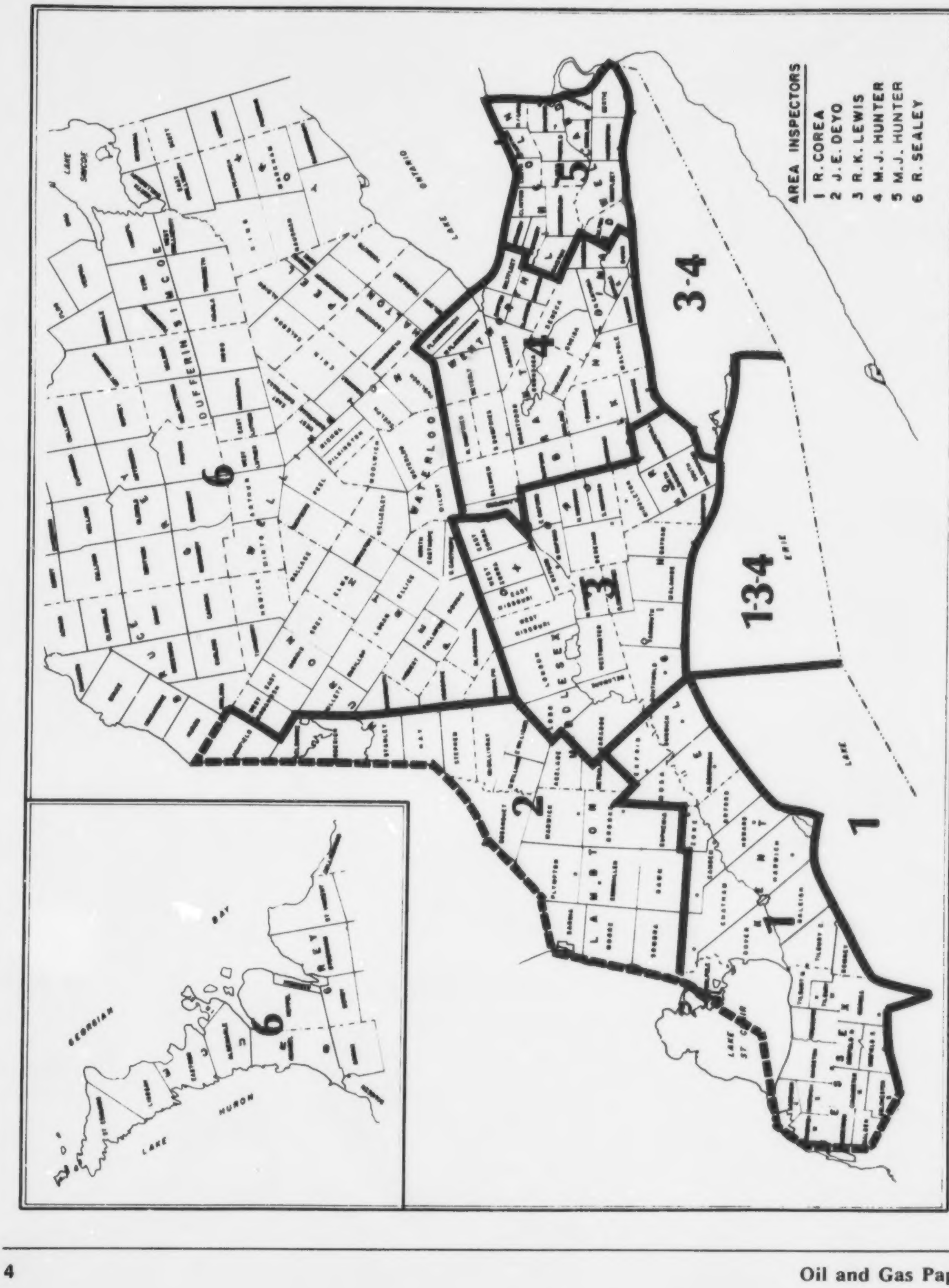

MINERAL RESOURCES COORDINATOR
PROVINCIAL PETROLEUM SUPERVISOR
P.A. PALONEN
SECRETARY
M. VANDEURSEN
CHIEF GEOLOGIST PETROLEUM RESOURCES LABORATORY
R.A. TREVAIL
RESERVOIR ENGINEER
E. HADID
RESERVOIR ENGINEER
R.M. RYBANSKY
DEPUTY CHIEF INSPECTOR
M. HUNTER
MINERAL RESOURCES GEOLOGIST
D. FEENSTRA
LAB TECHNICIAN
M. CAMPBELL
ADMINISTRATIVE ASSISTANT
P.A. WRIGHT
GEOLOGICAL TECHNICIAN ENGINEERING ASSISTANT
VACANT
SENIOR DRAFTER
I. CAMERON
AYLMER
R.K. LEWIS
SENIOR PETROLEUM GEOLOGIST
VACANT
Jr. CLERK
F. KAMPS
DRAFTER
VACANT
CHATHAM
J.E. DEVO
R. BEALEY
R. COREA
DATA PROCESSING TECHNICIAN
C. HESSELMANS
SIMCOE
VACANT

Figure 1. *Petroleum Resources Section Staff Organization (1985).*


AREA INSPECTORS
1 R. COREA
2 J.E. DEYO
3 R.K. LEWIS
4 M.J. HUNTER
5 M.J. HUNTER
6 R. SEALEY
1
1-3-4
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LAKE ERIE
LAKE ONTARIO
LAKE HURON
GEORGIAN BAY
LAKE ST CLAIR
LAKE SIMCOE
DUFFERIN
SIMCOE
WATERLOO
MIDDLESEX
LAMBTON
KENT
ESSEX
GREY
EAST NISSOURI
WEST NISSOURI
PILKINGTON
NICHOL

Figure 2. *Petroleum Resources Inspection Areas.*

1. ACTIVITIES PETROLEUM RESOURCES LABORATORY

The principal function of the Petroleum Resources Laboratory is to catalogue and store all subsurface geological samples consisting of drill cuttings and cores obtained from the drilling of all petroleum exploration and development wells. Cuttings are sorted and washed when they are received from the field. The cores received at the Lab are slabbed using a diamond saw. All cores and cuttings are catalogued and permanently stored for use by the public. Once samples and core have been prepared for examination, formation tops are determined by microscopic examination. Well cards showing well location, elevations of all formation tops and other technical information are completed. Regulations under the Petroleums Resources Act require that information on all exploratory wells remain confidential for a period of one year from completion of the well. Development wells are held confidential for one month.

Work areas for examination of files and samples are available in the lab for public use. Use of binocular microscopes and sample examination trays, etc can also be arranged with laboratory staff depending on availability. A petrographic microscope has also recently been acquired and is available for public use by prior arrangement with laboratory staff. There is no charge for these services. A photocopier is also available for public use at a cost of 12.5 cents per copy.

Geological staff at the Laboratory provide geological information and interpretations, conduct and publish the results of geological research, prepare statistical summaries, and make presentations at technical sessions.

An annual status report entitled "Oil and Gas Developments in Eastern Canada in 1985" (Carter et al, 1986) was prepared for and published by the American Association of Petroleum Geologists. The report summarizes activities and highlights of exploration and production trends in Ontario and Eastern Canada for 1985. Reprints are available at the Petroleum Resources Laboratory. Similar summaries were also prepared for and published by Northeast Oilworld, and the Ontario Geological Survey (Trevail et al, 1986).

R.A. Trevail presented one technical paper and co–authored three others during 1985. "Tectonic and Diagenetic Controls on the Development of Middle Ordovician Carbonate Hydrocarbon Reservoirs, Essex County, Ontario" was presented at the 24th Annual Conference ot the Ontario Petroleum Institute held in London, Ontario (Trevail, 1985). The study confirmed previous hypotheses that fracturing, dolomitization, and hydrocarbon entrapment are intimately related. Reservoir porosity is generally confined to dolomitized bioclastic zones of the Verulam and Kirkfield Formations and dolomitized burrows of the Gull River Formation. Porosity types include intercrystalline, interparticle, intraparticle, vug, channel, and fracture. Minor amounts of sphalerite, barite, and pyrite are associated with the dolomitized fracture zones and reservoirs. Such minerals are commonly associated with Mississippi Valley–type lead–zinc deposits. Other features the reservoirs have in common with MVT deposits include dolomization of the host rocks, development of baroque (sparry) dolomite, linear fracture zones, and karst features. Study of these reservoirs is continuing.

Also presented at the O.P.I. Conference were "The Use of Remote Sensing Technology in the Search for Oil and Gas in Southern Ontario" (Singhroy and Trevail, 1985), and "Computer Innovations in the Petroleum Resources Section–OPDS" (Hesselmans and Trevail, 1985). The former dealt with identifying lineaments utilizing enhanced Landsat MSS and thematic mapper (TM) images, as well as airborne colour infrared and thermal infrared data. Also discussed were difficulties in differentiating structural lineaments from other types of lineaments in an area of thick drift and intensive cultivation. The latter paper described the design, implementation, and capabilities of the Ontario Petroleum Data System (OPDS). OPDS is a computerized system for acquisition, storage, retrieval, and processing of oil and gas well data installed on a DEC VAX 11/780 mini–computer.

In October, M.T. Holroyd, vice–president of research and development for Dataplotting Services Inc. presented "OPDS: The Ontario Petroleum Data System" (Holroyd and Trevail, 1985) at the 55th Annual International Meeting and Exposition of the Society of Exploration Geophysicists held in Washington, D.C.

2. CONVENTIONAL OIL AND GAS RESERVES

As part of the Hydrocarbon Energy Resources Program (HERP), funds from the Ontario Ministry of Treasury and Economics, under the Board of Industrial Leadership and Development (BILD) Program, were allocated to the Petroleum Resources Section. The funds are being used to conduct a study whose objective is to provide the petroleum industry and Ontario Ministry of Natural Resources with a revised current evaluation of the oil and gas reserves and potential of the Paleozoic rocks of Ontario. Areas underlain by Paleozoic rocks in southwestern Ontario and the St. Lawrence Lowlands will be re–evaluated in the study undertaken by local Ontario consultants, Bailey Geological Services Ltd. and R.O. Cochrane.

The study has been separated into 6 phases as follows:

Phase 1: Evaluation of the conventional hydrocarbon reserves and potential of the Ordovician rocks of Ontario

Phase 2: Evaluation of the conventional hydrocarbon reserves and potential of the Cambrian rocks of Ontario

Phase 3: Evaluation of the conventional hydrocarbon reserves and potential of the Devonian rocks of Ontario

Phase 4: Evaluation of the conventional hydrocarbon reserves and potential of the Silurian sandstones of Ontario

Phase 5: Evaluation of the conventional hydrocarbon reserves and potential of the Silurian reef complex of Ontario

Phase 6: Summary and publication of the findings of Phases 1 to 6 of the Project.

Phases 1 and 2 of the project were released in 1984 as Open File Reports 5498 and 5499 (Bailey and Cochrane, 1984a,b). They included 40 Preliminary Maps, covering the southern portion of the Province of Ontario at 1:250 000 scale, and showing the regional structures and isopachs of the Trenton Group, Black River Group, Shadow Lake Formation, and top of the Precambrian basement. Detailed oil and gas pool maps at 1:20 000 scale for 6 Cambrian pools and 10 Ordovician pools accompany the Open File Reports.

Phase 3 of the study entitled was released in 1985 through the Ontario Geological Survey as Open File Report 5555, along with 86 Preliminary Maps at a scale of 1:100,000 (Bailey and Cochrane, 1985). The maps show the regional structure contours of the top of the pre–Hamilton Devonian carbonates, the base of the "Columbus" sandstone, and the top of the Devonian sulfur water–porosity; as well as isopach contours of the

"Columbus" sandstone, the Oriskany–Springvale sandstone, the Sylvania sandstone, and top of the Devonian carbonates to top of the Devonian sulfur water–porosity. In addition to this, detailed structure and isopach maps at a 1:20 000 scale for 12 Devonian pools accompany the reports.

Phase 4, the Silurian Sandstone report, was released early in 1986 as Open File Report 5578, along with 86 preliminary maps at a scale of 1:100,000 (Bailey and Cochrane, 1986). The maps show the location and boundaries of the pools, regional structure contours on the top of the Rochester Formation, and isopach contours of the Thorold, Grimsby, and Whirlpool Sandstones.

Phase 5, the Silurian reef complex report, will be released as soon as it is available.

II. 1985 Activity Highlights

Drilling activity in Ontario continued at a steady pace in 1985. A total of 199 wells (74 exploratory, 101 development, and 24 service) were drilled with an overall success rate of 53% in combined exploratory and development drilling. Total metreage amounted to 103,844.1 m. The exploratory drilling resulted in 5 new oil wells and 18 gas wells, while 49 of the development wells were completed as gas producers and 21 as oil producers. Table 1 summarizes discoveries in Ontario during the year and Figure 3 shows their locations. Table 2 summarizes important dry tests drilled in 1985.

As in the previous two years the highlight of conventional exploration activity in Ontario in 1985 continued to be exploration for and development of relatively deep reservoirs in the Middle Ordovician carbonates of the Trenton and Black River Groups. Ram Petroleums Ltd and E.P. Rowe Ltd. continued the joint development of their Dover 7–5–V E oil pool, discovered in 1983, with the drilling of 3 more wells. Rowe Ram 8A Dover 4–6–IV E was completed as an oil producer and was reported by the operators to have been placed on production at an initial rate of approximately 48 m^3/day. Production is from 9 metres perforated in a net pay interval of 35 metres at a depth between 951 and 1,035 m. The second well was a dry hole, and the third well was completed as a gas producer. No new wells were completed in the Dover 1–11–V E pool discovered by Ram and Rowe in 1984. In addition to its development activities in the Dover 7–5–V E pool, Ram also reported the discovery of a new gas pool in Trenton–Black River strata in 1985. Ram 84 Sombra 3–26–III was completed as a gas producer, but at the time of writing had not yet been placed on production.

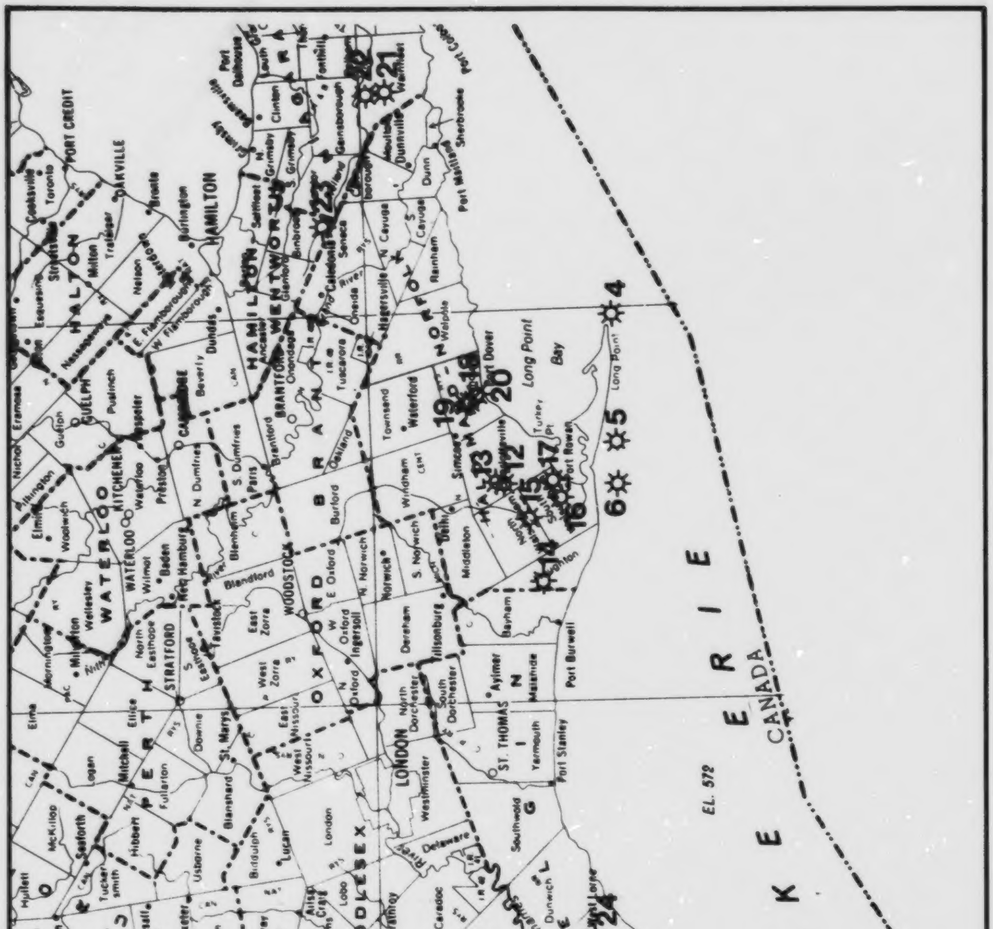
The Consumers' Gas Company Ltd., Pembina Exporation Company Ltd, and the Ontario Energy Corporation continued their joint development of the Hillman oil pool (previously referred to as Mersea 1–15–B pool), which was discovered in 1983. Eight development wells were drilled into this pool in 1985, all of which were completed as oil producers. These operators also discovered a new Trenton–Black River oil pool with the completion of Consumers' et al Mersea 34012 6–23–VII as an oil producer.

Sandstones of the Thorold and Grimsby Formations remain the prime target in onshore portions of Norfolk, Haldimand, Welland, and Wentworth Counties. Twelve exploratory wells were completed as relatively low–volume gas producers. Porosity and permeability pinch–outs in thin but extensive nearshore shelf sandstones provide the primary trapping mechanism for these pools. Low drilling and completion costs associated with shallow depth (300–400 m) provide an attractive target for the small operator and investor.

Drilling in Lake Erie consisted of 12 exploratory and 63 development wells. Four of the exploratory wells and 42 of the development wells were successfully completed as gas producers. The principal targets for both exploratory and development drilling were Silurian nearshore shelf sandstones of the Grimsby and Thorold Formations, and sandstones of the underlying Whirlpool Formation. Six of the exploratory wells on the lake in 1985 were drilled to Precambrian basement at an average depth of 1,350 metres in a major test of the gas potential of Cambrian strata at the base of the Paleozoic section. One well was successfully completed as a gas producer in sandstone of the Cabot Head Formation. None of the wells en-

TABLE 1: DISCOVERIES IN SOUTHWESTERN ONTARIO IN 1985.

Map No.	Latitude Longitude	Well Name	Producing Formation	Metres Drilled	Class Status	Compl. Date
ELGIN						
1	42°40'27" N 81°40'45" W	Brett Aldborough 8-23-BF	A-1 Carbonate	449.0	NPW OP	85.08.30
ESSEX						
2	42°06'41" N 82°28'28" W	Consumers' et al 34012 Mersea 6-23-VII	Cobourg Verulam	1090.0	NPW OP	85.11.29
KENT						
3	42°20'31" N 82°10'01" W	Cameron Doyles 1 Raleigh 5-19-VIII	Guelph	510.5	NPW GP-OS	85.05.04
LAKE ERIE						
4	42°32'45" N 79°59'13" W	Pembina 1 Lake Erie 88-O	Thorold-Grimsby	500.7	EXT GP	85.08.19
5	42°31'25" N 80°20'35" W	Consumers' 13903 Lake Erie 93-T	Thorold-Grimsby	500.0	NPW GP	85.06.05
6	42°31'14" N 80°27'31" W	Consumers' 13888 Lake Erie 94-R	Thorold-Grimsby	510.0	NPW GP	85.06.01
7	42°18'06" N 81°42'48" W	Diamond Shamrock Lake Erie 175-H	Cabot Head	1340.0	NPW GP	85.08.02
LAMBTON						
8	42°44'11" N 82°11'53" W	P.R. & Associates #2 Dawn 4-30-III	Guelph	603.5	NPW OP-GS	85.06.13
9	42°48' 37"N 82°18'16" W	Ram 81 Moore 2-9-IV	A-1 Carbonate	1291.0	NPW OP	85.09.13
10	42°52'50" N 82°20'48" W	Brett Moore 3-14-X	Guelph	766.0	NPW OP	85.08.20
11	42°38'53" N 82°16'49" W	Ram 84 Sombra 3-26-VI	Coboconk	1190.0	NPW GP	85.11.13
NORFOLK						
12	42°44'29" N 80°27'34" W	Metalore 73 Charlotteville 4-5-2-VI	Thorold-Grimsby	419.0	NPW GP	85.06.11
13	42°45'31" N 80°27'21" W	Bayview 10 Charlotteville 4-4-VII	Thorold-Grimsby	387.0	NPW GP	85.08.29
14	42°40'04" N 80°42'27" W	Hemlock 10 Houghton 1-8-WNR	Thorold-Grimsby	420.3	NPW GP	85.02.15
15	42°41'45" N 80°31'05" W	F.M. 8 N. Walsingham 8-15-VII	Grimsby	421.2	NPW GP	85.12.18
16	42°38'32" N 80°29'04" W	South Eagle 1 S. Walsingham 5-14-II	Grimsby	447.1	NPW GP	85.01.02
17	42°39'54" N 80°26'59" W	Dewey Oil 1 S. Walsingham 1-20-II	Thorold-Grimsby	437.7	NPW GP	85.05.21
18	42°48'30" N 80°14'20" W	Chatham 12 Woodhouse 7-8-III	Thorold-Grimsby	347.8	NPW GP	85.04.03
19	42°48'38" N 80°14'18" W	Chatham 11 Woodhouse 6-8-III	Thorold-Grimsby	345.9	NPW GP	85.04.16
20	42°48'09" N 80°13'43" W	Chatham 13 Woodhouse 3-9-II	Thorold-Grimsby	341.4	NPW GP	85.04.24
WELLAND						
21	42°55'32" N 79°25'42" W	Mother III Wainfleet 8-29-IV	Thorold-Grimsby	233.2	NPW GP	85.04.26
22	42°59'56" N 79°25'54" W	E. Henderson 1 Wainfleet 30-VII	Grimsby, Whirlpool	182.9	NPW GP	85.07.31
WENTWORTH						
23	43°04'15" N 79°46'17" W	Ace's Dream 1 Binbrook 2-30-IX	Thorold, Whirlpool	147.8	NPW GP	85.01.04


LAKE ERIE
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Detroit River
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SARNIA
WINDSOR
LONDON
WOODSTOCK
STRATFORD
KITCHENER
WATERLOO
GUELPH
HAMILTON
OAKVILLE
PORT CREDIT
BRANTFORD
ST. THOMAS
CHATHAM
LAMBTON
KENT
ESSEX
MIDDLESEX
ELGIN
OXFORD
PERTH
HURON
NORFOLK
HALDIMAND
BRANT
WENTWORTH
HALTON
WELLAND
Long Point
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Port Stanley
Port Burwell
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Figure 3. *Discoveries and Important Dry Tests in Southwestern Ontario in 1985.*

TABLE 2: IMPORTANT DRY TESTS IN 1985.

Map No.	Latitude Longitude	Well Name	Formation Showing Oil or Gas	Metres Drilled	Class Status	Compl. Date
ELGIN						
24	42°33'19" N 81°36'23" W	C.G.Oil 4 Aldborough 4-5-15-X	Dundee	117.7	NPW GS	85.10.05
ESSEX						
25	42°07'27" N 82°36'42" W	Consumers' et al 34014 Mersea 8-4-VIII	Guelph	381.0	NPW OS	85.12.02
KENT						
26	42°20'25" N 82°14'43" W	Dynamar et al Raleigh 1-11-VI	Cambrian	1153.8	NPW OS-GS	85.07.16
27	42°38'57" N 81°58'07" W	Consumers' et al 33981 Zone 3-5-II	A-1 Carbonate Guelph	548.0	NPW GS	85.06.18
LAMBTON						
28	42°53'57" N 81°59'46" W	Shawnee Talcorp Brooke 3-2-XII	Guelph	636.0	NPW OS	85.03.08
29	42°51'01" N 82°08'09" W	Forbes 38 Enniskillen 5-14-VIII	Guelph	661.0	NPW OS	85.09.30
MIDDLESEX						
30	43°13'50" N 80°41'00" W	PPC 7 McGillivray 3-5-XXII	Guelph	581.0	NPW GS	85.07.29

countered any oil or gas in the Cambrian section. The wells were all drilled by Diamond Shamrock Exploration of Canada Ltd. as part of an exploration agreement to earn a 50% working interest in Lake Erie exploratory licences held by Anschutz Resources Ltd.

The other highlight of 1985 was the long-awaited start of the Devran project. The project is a $6.3 million joint venture between Devran Petroleums Ltd of London, Ontario, and Shell Canada Resources Ltd. The project will use a gravity-assisted oil drainage technique to attempt to recover a large percentage of the estimated 2.1 million m^3 of oil that has remained in the abandoned Sarnia-London Road oil pool since the end of conventional recovery techniques in the early 1900's. The initial phase of sinking of a vertical shaft was completed in March, 1985, with 2.7 m. diameter casing set into bedrock at a depth of 33 m and cemented in place. The second phase of excavation, through approximately 85-90 metres of Devonian shales and carbonates , was completed by April, 1986. Surface facilities were constructed during the summer of 1985. Drilling of a radial pattern of 24 drillholes from 2 work stations at the bottom of the shaft was scheduled to begin in May, 1986. Anticipated initial production rates range from 16 to 80 m^3/day. The project is being assisted by grants of $400,000 from the federal Department of Energy Mines and Resources, and $100,000 contributed jointly by the Ontario Ministry of Natural Resources and the Ontario Ministry of Energy. If successful the method may be employed to exploit other shallow oil deposits.

III. Leasing

1. LICENCES

The number of licences to lease oil and gas rights in Ontario issued in 1985 increased to a total of 174 compared to 165 issued in 1984 (Table I–1).

2. ACTIVITY

A. Onshore – Southwestern Ontario

In 1985, 88,947.0 hectares were acquired on land, up 23.6% from the 78,413.2 hectares leased in 1984 (Table 3). The figures in Table 3 represent only new hectares leased on freehold lands, and therefore do not reflect the total number of hectares under lease and do not include assignments.

The greatest increase in leasing activity occurred in Essex County, where the total area leased was up nearly 670% over 1983. This increase is attributed to the continued success of the Trenton–Black River play.

Leasing activity also increased in Middlesex, Norfolk, Oxford, and St. Lawrence–Niagara Counties, but decreased significantly in Elgin and Kent Counties (see Table 3).

B. Offshore – Lake Erie

The Petroleum Resources Section, under Ontario Regulation 634 of the Mining Act, administers the disposition of Licences of Occupation and Production Leases in transactions involving Crown land in Lake Erie. Drilling is restricted to the portion of Lake Erie east of a line taken from Point

TABLE 3: HECTARES LEASED ONSHORE, 1981-1985.

County	1981	1982	1983	1984	1985
Brant	4,192.5	388.5	--	--	--
Bruce	3,920.6	1,018.2		485.6	87.4
Durham	--	--	54.2	60.7	--
Elgin	6,280.3	3,258.3	19,273.9	17,739.2	5,676.4
Essex	1,714.7	4,139.7	5,310.8	5,369.4	41,231.2
Grey	1,288.1	--	809.4	--	--
Haldimand	1,064.3	235.5	--	260.6	--
Halton	--	--	--	--	0.2
Huron	3,352.8	5,739.5	12,101.7	1,999.3	1,539.0
Kent	10,191.2	13,696.8	7,738.0	24,649.3	8,703.3
Lambton	16,412.1	22,249.7	28,001.7	21,926.6	19,464.6
Lincoln	615.5	4.0	40.5	--	--
Manitoulin Island		60.7	288.5	--	--
Middlesex	5,655.5	1,418.0	2,251.6	3,313.8	7,281.3
Norfolk	10,892.1	3,976.8	1,660.8	2,107.9	4,439.8
Oxford	13,698.6	357.7	141.6	111.5	519.6
Perth	688.0	--	--	--	--
Victoria	80.9	--	--	--	--
St. Lawrence-Niagara	--	--	4.0	--	4.1
Welland	72.0	183.7	--	389.3	--
Wellington	--	184.5	517.6	--	--
Wentworth	314.4	--	--	--	--
TOTAL	80,433.6	56,911.6	78,194.3	78,413.2	88,947.0

Pelee, Ontario to Marble Head, Ohio. As well, production is limited to natural gas.

Table 4 shows the number of hectares on Lake Erie under disposition during 1963–1985. In 1985 730,731.3 hectares were held under Licences of Occupation and 308,621.8 hectares were held under production leases for a total of 1,039,353.1 hectares under disposition.

Rental payments to the Crown in 1985 were $270,851.22 for the Licences of Occupation and $502,554.66 for Leases. The total, $773,405.88, represented an increase of 16% from rent collected in 1984. Royalty payments received by the Crown for the year amounted to $5,553,488.52 representing a 15% increase over the $4,825,709.48 collected in 1984.

Total revenue for all royalties and rent for the year was $6,326,894.40, compared to $5,491,669.86 collected in 1984.

C. Hudson and James Bay Lowlands

Administration of licencing and leasing of oil and gas rights on Crown land in the Hudson and James Bay Lowlands is performed by the Petroleum Resources Section and personnel of Moosonee District, Ministry of Natural Resources under Regulation 603, R.S.O. 1970. This statute regulates Licences of Occupation on Crown lands north of the fifty–first parallel of latitude.

Licences previously held by the Ontario Energy Corporation for the purpose of exploring for lignite and bituminous shale expired in 1984. No new licences or leases were issued.

TABLE 4: LAKE ERIE HECTARES UNDER DISPOSITION 1963-1985.

Year	Licences of Occupation	Production Leases	Total Hectares
1963	n/a	n/a	466,247.6
1964	n/a	n/a	n/a
1965	n/a	n/a	n/a
1966	n/a	n/a	259,493.1
1967	n/a	n/a	1,257,782.2
1968	n/a	n/a	1,257,631.3
1969	n/a	n/a	1,256,819.5
1970	n/a	n/a	828,671.8
1971	n/a	n/a	656,906.1
1972	594,437.6	62,236.3	656,673.9
1973	962,821.6	64,530.8	1,027,352.4
1974	1,011,015.2	71,206.1	1,082,221.3
1975	1,021,269.2	74,256.5	1,093,538.7
1976	1,019,282.2	74,256.5	1,093,538.7
1977	999,396.0	94,132.8	1,093,528.8
1978	961,746.0	157,274.3	1,119,020.3
1979	887,280.9	212,918.7	1,100,199.6
1980	889,578.0	215,002.0	1,104,580.0
1981	667,110.0	279,529.0	946,639.0
1982	843,068.0	301,109.0	1,144,177.0
1983	476,416.0	294,022.0	770,438.0
1984	766,823.9	301,229.3	1,068,053.2
1985	730,731.3	308,621.8	1,039,353.1

IV. Geophysical And Geochemical Activity

1. LICENCES

Forty–two licences to conduct geophysical or geochemical exploration for oil and natural gas in Ontario were issued in 1985 (Table I–2).

2. ACTIVITY

There was a major increase in geochemical exploration activity in 1985 compared to 1984, principally due to completion of two major geochemical water well sampling projects by Chemical Projects Ltd and B.G. Environmental Surveys Ltd. (see Table 5). A major geochemical soil sampling project was also completed by B.P. Canada in Huron and Bruce Counties. Geochemical exploration in Lambton County continued at 1984 levels, while activity decreased significantly in all other parts of the province.

Seismic exploration activity also increased significantly, particularly in Essex County where 664.8 km of seismic data were collected compared to

TABLE 5: GEOPHYSICAL AND GEOCHEMICAL EXPLORATION 1983–1985.

Method	County	1983	1984			1985		
		km	km	+	ha	km	+	ha
Electrical	Essex	--	--		--	20.0		--
	Middlesex	--	--		--	14.0		--
Total						34.0		
Electromagnetic	Oxford	10.0	--		--	--		--
Total		10.0						
Geochemical	Brant	--	--		18,716	--		--
	Elgin	--	396.0		56,608	--		42,325
	Essex	--	256.9		--	--		169,661
	Huron+Bruce	--	--		--	850.0		--
	Kent	--	107.7		--	--		177,158
	Lambton	150.6	233.8		--	278.6		276,248
	Middlesex	2.9	290.1		92,226	--		150,122
	Norfolk	--	--		39,803	--		--
	Oxford	--	290.0		58,914	--		113,789
Total		153.5	1574.5		266,267	1128.6		929,303
Gravity	Lambton	8.6	--		--	--		--
Total		8.6						
Radiometric	Kent	--	--		--	50.0		--
Total						50.0		
Seismic	Elgin	30.2	90.1		--	101.2		--
	Essex	--	55.5		--	664.8		--
	Kent	186.5	74.0		--	66.5		--
	Lake Erie	--	372.0		--	--		--
	Lambton	253.2	91.9		--	131.3		--
	Middlesex	--	4.3		--	12.6		--
	Norfolk	0.5	1.0		--	--		--
Total		470.4	688.8			976.4		
Total		642.5	2,263.3		266,267	2,189.0		929,303

only 55.5 km in 1984. This is due almost entirely to increased exploration for Ordovician oil reservoirs in this area, and increased use of seismic as the principal exploration method used to locate these reservoirs. With the exception of Lake Erie, seismic exploration continued at 1984 levels in other parts of the province.

V. Drilling

1. LICENCES

Licences were issued to owners of 75 machines for boring, drilling, or plugging wells in 1985 (Table I–3).

2. PERMITS

A total of 269 drilling permits were issued in 1985.

3. ACTIVITY

Drilling activity in Ontario continued at a steady pace in 1985. A total of 199 wells were drilled for a combined length of 103,844.1 metres, compared to 200 wells and 97,156.2 metres in 1984 (see Table 6). The 1985 total includes 24 service wells, 74 exploratory wells, and 101 development wells. Thirty–one percent of the exploratory wells were successfully completed as oil and/or gas producers, and 69% of the development wells were also successful. Exploratory wells completed as producers are listed in Table 1. Important dry tests are listed in Table 2.

Drilling on land in Ontario in 1985 consisted of 62 exploratory, 38 development, and 24 service wells. One of the exploratory wells was lost at 70 metres. Five of the exploratory wells were completed as oil producers and 14 as gas producers for a success rate of 31 percent. Twenty–one of the development wells were completed as oil producers and 7 as gas producers for a success rate of 74 percent. The 24 service wells completed in 1985 consisted of 6 stratigraphic tests, 3 disposal wells, 6 salt solution mining wells, 8 natural gas storage wells, and 1 LPG storage well. Total metreage drilled for all onshore wells completed in 1985 was 64,307.8.

Drilling on Lake Erie in 1985 consisted of 12 exploratory and 63 development wells, bringing the total number of wells drilled on the lake to 1,739 (see Table 7, Figures 4, 5, 6, and 7). Four of the exploratory wells and 42 of the development wells were completed as gas producers, for success rates of 33% and 67% respectively. Total metreage for all Lake Erie wells in 1985 was 39,438.8.

Relatively accurate drilling statistics are available for the period 1955 to 1985 (Table 8, Figures 8, 9, 10, and 11). During that time 2,783 exploratory, 3,570 development, and 764 service wells were drilled for a total of 7,117 wells. Total metreage amounted to 3,337,539 m with an average depth of 469 m.

Table 9 presents a summary of 1985 drilling by geological age along with corresponding success rates for exploratory and development drilling.

TABLE 6: SUMMARY OF WELLS DRILLED IN 1985.

County	Township	Exploratory						Development						Service			Total Wells	Total Metres
		Gas	Oil	Dry	Susp	Total Wells	Total Metres	Gas	Oil	Dry	Susp	Total Wells	Total Metres	Total Wells	Total Metres	Well Type		
Cochrane	Morrow													1	321.0	STR	1	321.0
Elgin	Aldborough		1	5		6	1161.3		4	1		5	588.1				11	1749.4
	Southwold			1		1	1119.0										1	1119.0
Essex	Mersea		1	3		4	3598.0		8			8	7854.3	2	202.1	1 BD, 1 STR	14	11654.4
	Anderdon													3	791.4	2 SM, 1 STR	3	791.4
	Colchester S.													1	29.7	STR	1	29.7
Grey	Keppel			1		1	187.5										1	187.5
Haldimand	Moulton							1				1	237.7				1	237.7
	Seneca			1		1	155.8										1	155.8
Huron	Stephen			1		1	552.0										1	552.0
Kent	Camden Gore			1		1	1228.5										1	1228.5
	Chatham			1		1	518.2		1	1		2	1059.1				3	1577.3
	Dover			3		3	2397.2	1	1	1		3	3458.0				6	5855.2
	Howard			1		1	130.0										1	130.0
	Raleigh	1		1		2	1664.3		1			1	77.7				3	1742.0
	Tilbury East			1		1	1155.0										1	1155.0
	Zone			1		1	548.0			2		2	249.5				3	797.5
Lambton	Brooke			4		4	3065.0										4	3065.0
	Dawn		1	1		2	1164.3		3	1		4	1224.2	3	1736.2	3 NGS	9	4124.7
	Enniskillen			6		6	3426.5		3			3	429.8	1	237.1	BD	10	4093.4
	Moore		2	1		3	2823.0							10	6331.8	4 SM, 5 NGS, 1 BD	13	9154.8
	Sarnia													1	816.0	LPG	1	816.0
	Sombra	1		2		3	2447.0			2		2	1101.0				5	3548.0
	Warwick			1		1	681.0										1	681.0
Manitoulin	Cockburn Is.													1	521.0	STR	1	521.0
Middlesex	Ekfrid			2		2	1243.2										2	1243.2
	McGillivray			1		1	581.0										1	581.0
	Mosa			2		2	280.0										2	280.0
	West Williams													1	37.4	STR	1	37.4
Norfolk	Charlotteville	2				2	806.0	1				1	397.8				3	1203.8
	Houghton	1				1	420.3	1		1		2	837.8				3	1258.1
	Middleton							2		1		3	1103.3				3	1103.3
	N. Walsingham	1				1	421.2	1				1	395.0				2	816.2
	S. Walsingham	2				2	884.8										2	884.8
	Woodhouse	3		1		4	1048.8										4	1048.8
Welland	Wainfleet	2				2	416.1										2	416.1
Wentworth	Binbrook	1				1	147.8										1	147.8
SUBTOTAL		14	5	42		61	34270.8	7	21	10	0	38	19013.3	24	11023.7		123	64307.8
Lake Erie		4		8		12	11290.7	42		21		63	28148.1				75	39438.8
Lost Hole	Elgin-Ald.			1		1	97.5										1	97.5
TOTAL		18	5	51		74	45659.0	49	21	31	0	101	47161.4	24	11023.7		199	103844.1

TABLE 7: LAKE ERIE DRILLING STATISTICS 1960 TO 1985.

Year	EXPLORATORY				DEVELOPMENT				SERVICE		Total Wells	Cumul. Wells	Metres Drilled	Cumul. Total Metres
	No. of Wells	Metres	Cumul. Wells	Cumul. Metres	No. of Wells	Metres	Cumul. Wells	Cumul. Metres	No. of Wells	Metres				
1960	9	4232	9	4232	29	10462	29	10462		0	38	257	14693	14693
1961	8	2626	17	6857	28	9141	57	19603		0	36	293	11767	26461
1962	8	3097	25	9954	39	13292	96	32895		0	47	340	16388	42849
1963	15	6286	40	16240	20	7116	116	40011		0	35	375	13402	56251
1964	0	0	40	16240	20	6551	136	46563		0	20	395	6551	62803
1965	5	1676	45	17916	31	10211	167	56774		0	36	431	11888	74691
1966	0	0	45	17916	15	5552	182	62326	15	1211	30	461	6763	81454
1967	21	10021	66	27938	11	3954	193	66280		0	32	493	13975	95429
1968	29	14477	95	42415	16	6709	209	72989		0	45	538	21186	116615
1969	33	18370	128	60785	28	10389	237	83378	5	2151	66	604	30909	147524
1970	11	6771	139	67556	42	20219	279	103596		0	53	657	26990	174514
1971	8	4192	147	71747	29	15745	308	119342		0	37	694	19937	194451
1972	19	11841	166	83589	18	9464	326	128806		0	37	731	21306	215757
1973	16	9781	182	93370	26	13286	352	142092		0	42	773	23068	238824
1974	27	12103	209	105473	26	12948	378	155040		0	53	826	25051	263875
1975	30	13684	239	119157	40	16649	418	171689		0	70	896	30332	294207
1976	25	14141	264	133298	47	19068	465	190757		0	72	968	33209	327416
1977	21	13767	285	147064	44	24792	509	215549		0	65	1033	38559	365975
1978	23	15152	308	162216	62	31114	571	246663		0	85	1118	46266	412241
1979	24	14360	332	176576	97	52018	668	298681		0	121	1239	66378	478619
1980	50	29657	382	206234	76	45502	744	344182		0	126	1365	75159	553778
1981	19	9349	401	215583	76	36268	820	380450		0	95	1460	45617	599395
1982	10	4848	411	220431	54	24488	874	404938		0	64	1524	29336	628731
1983	16	7532	427	227963	55	25101	929	430039		0	71	1595	32633	661364
1984	7	3671	434	231635	62	27450	991	457489		0	69	1664	31121	692485
1985	12	11291	446	242925	63	28155	1054	485643		0	75	1739	39445	731930

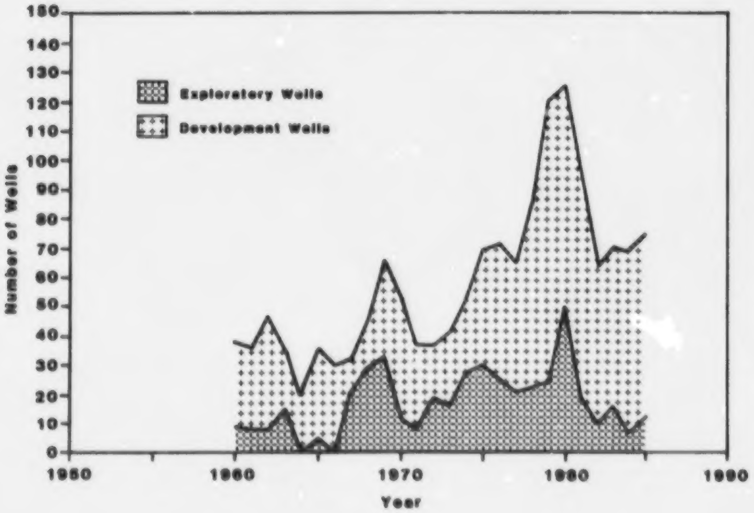


Figure 4. *Exploratory and Development Wells Drilled Annually in Lake Erie, 1960–1985.*

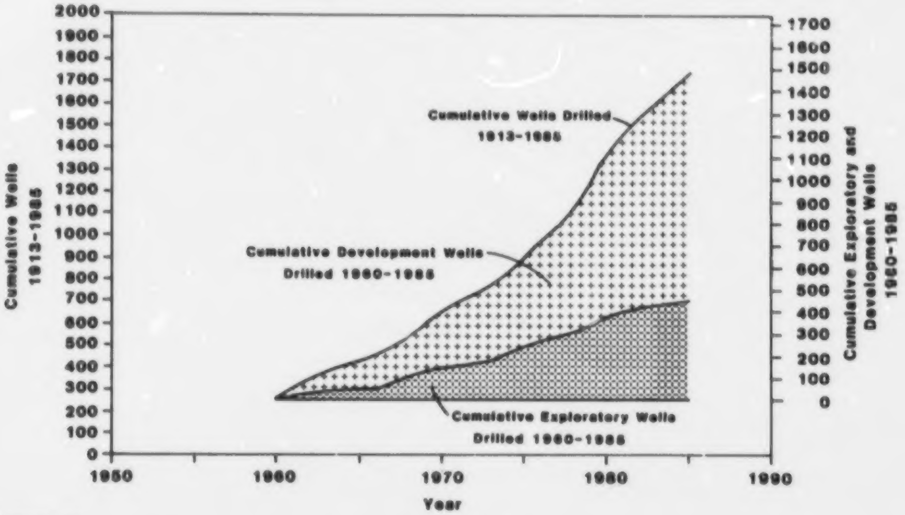


Figure 5. *Cumulative Exploratory and Development Wells Drilled in Lake Erie, 1960–1985.*

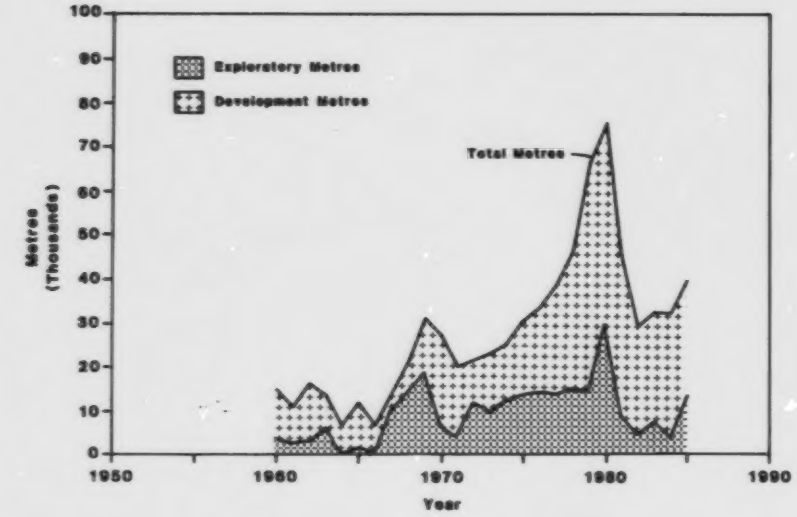


Figure 6. *Exploratory and Development Metres Drilled Annually in Lake Erie, 1960–1985.*

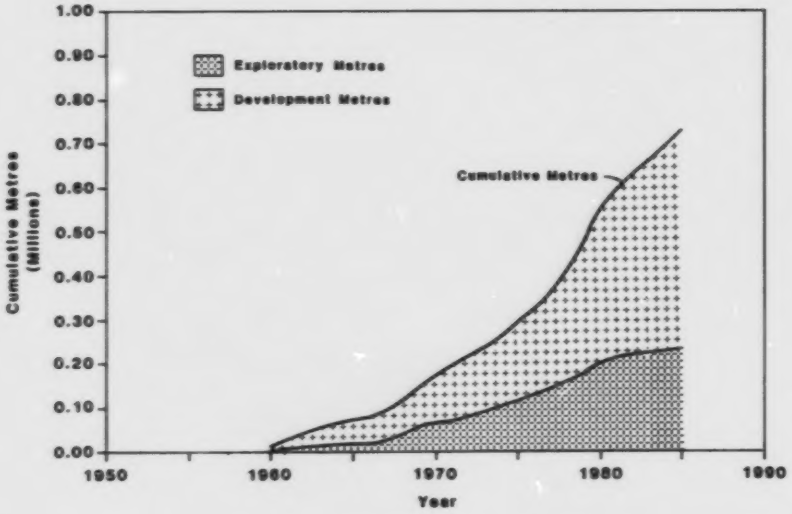


Figure 7. *Cumulative Exploratory and Development Metres Drilled in Lake Erie, 1960–1985.*

TABLE 8: TOTAL DRILLING STATISTICS 1955 - 1985.

	EXPLORATORY					DEVELOPMENT					SERVICE								
year	wells	metres	ave. depth	cum. wells	cum. metres	wells	metres	ave. depth	cum. wells	cum. metres	wells	metres	ave. depth	cum. wells	cum. metres	total wells	cum. wells	total metres	cum. metres
1955	123	64414.6	523.7	123	64414.6	261	80662.0	309.0	261	80662	6			6	0.0	390	390	145076.6	145077
1956	134	67556.5	504.2	257	131971.1	290	89085.4	307.2	551	169747	7			13	0.0	431	821	156641.9	301718
1957	122	55660.4	456.2	379	187631.5	288	99079.5	344.0	839	268827	11			24	0.0	421	1242	154739.9	456458
1958	96	54504.3	567.8	475	242135.9	222	89702.0	404.1	1061	358529	35			59	0.0	353	1595	144206.4	600665
1959	116	59050.4	509.1	591	301186.3	165	63743.4	386.3	1226	422272	29			88	0.0	310	1905	122793.9	723459
1960	172	56107.6	326.2	763	357293.9	94	66373.5	706.1	1320	488646	40			128	0.0	306	2211	122481.1	845940
1961	165	49057.9	297.3	928	406351.8	85	56042.0	659.3	1405	544688	17	5473.0	321.9	145	5473.0	267	2478	110572.9	956513
1962	124	51013.5	411.4	1052	457365.3	81	58906.2	727.2	1486	603594	21	3062.0	145.8	166	8535.0	226	2704	112981.7	1069494
1963	93	66324.5	713.2	1145	523689.8	109	53386.6	489.8	1595	656981	14	3849.3	275.0	180	12384.3	216	2920	123560.4	1193055
1964	125	70824.5	566.6	1270	594514.3	91	60567.1	665.6	1686	717548	45	17738.8	394.2	225	30123.1	261	3181	149130.4	1342185
1965	108	54310.5	502.9	1378	648824.8	80	46476.5	581.0	1766	764024	16	6157.6	384.8	241	36280.6	204	3385	106944.6	1449130
1966	62	41181.8	664.2	1440	690006.6	56	27066.2	483.3	1822	791090	28	8074.5	288.4	269	44355.1	146	3531	76322.5	1525452
1967	68	38874.5	571.7	1508	728881.1	67	23815.8	355.5	1889	814906	21	9427.2	448.9	290	53782.3	156	3687	72117.5	1597570
1968	73	38823.3	531.8	1581	767704.4	79	39819.6	504.0	1968	854726	36	17955.5	498.8	326	71737.7	188	3875	96598.4	1694168
1969	144	91881.4	638.1	1725	859585.8	64	26345.9	411.7	2032	881072	29	16974.9	585.3	355	88712.6	237	4112	135202.2	1829370
1970	70	44411.2	634.4	1795	903997.0	98	49069.7	500.7	2130	930141	22	13434.7	610.7	377	102147.3	190	4302	106915.6	1936286
1971	64	39196.1	612.4	1859	943193.1	66	35323.5	535.2	2196	965465	30	13657.2	455.2	407	115804.5	160	4462	88176.8	2024463
1972	88	46991.9	534.0	1947	990185.0	47	23914.9	508.8	2243	989380	48	18445.9	384.3	455	134250.4	183	4645	89352.7	2113815
1973	52	31497.4	605.7	1999	1021682.4	56	27853.5	497.4	2299	1017233	18	7496.6	416.5	473	141746.9	126	4771	66847.5	2180663
1974	80	44415.2	555.2	2079	1066097.6	60	27143.9	452.4	2359	1044377	30	12602.6	420.1	503	154349.5	170	4941	84161.7	2264824
1975	66	37428.5	567.1	2145	1103526.1	71	26727.6	376.4	2430	1071105	25	15203.1	608.1	528	169552.6	162	5103	79359.2	2344184
1976	58	36088.3	622.2	2203	1139614.4	92	36600.9	397.8	2522	1107706	9	3804.5	422.7	537	173357.1	159	5262	76493.7	2420677
1977	57	33405.8	586.1	2260	1173020.2	113	55861.0	494.3	2635	1163567	19	8505.4	447.7	556	181862.6	189	5451	97772.2	2518450
1978	62	41724.1	673.0	2322	1214744.3	102	47902.9	469.6	2737	1211470	15	8448.8	563.3	571	190311.3	179	5630	98075.8	2616525
1979	67	45280.9	675.8	2389	1260025.2	142	69122.3	486.8	2879	1280592	13	7899.7	607.7	584	198211.0	222	5852	122302.9	2738828
1980	104	61244.1	588.9	2493	1321269.3	121	55954.2	462.4	3000	1336546	14	8383.5	598.8	598	206594.5	239	6091	125581.8	2864410
1981	50	29798.2	596.0	2543	1351067.5	131	56822.9	433.8	3131	1393369	50	9860.1	197.2	648	216454.6	231	6322	96481.2	2960891
1982	45	27813.2	618.1	2588	1378880.7	121	41890.9	346.2	3252	1435260	17	9772.0	574.8	665	226226.6	183	6505	79476.1	3040367
1983	49	29920.0	610.6	2637	1408800.7	116	51383.0	443.0	3368	1486643	48	14867.0	309.7	713	241093.6	213	6718	96170.0	3136537
1984	72	39874.4	553.8	2709	1448675.1	101	46725.5	462.6	3469	1533368	27	10558.1	391.0	740	251651.7	200	6918	97158.0	3233695
1985	74	45659.0	617.0	2783	1494334.1	101	47161.4	466.9	3570	1580530	24	11023.7	459.3	764	262675.4	199	7117	103844.1	3337539

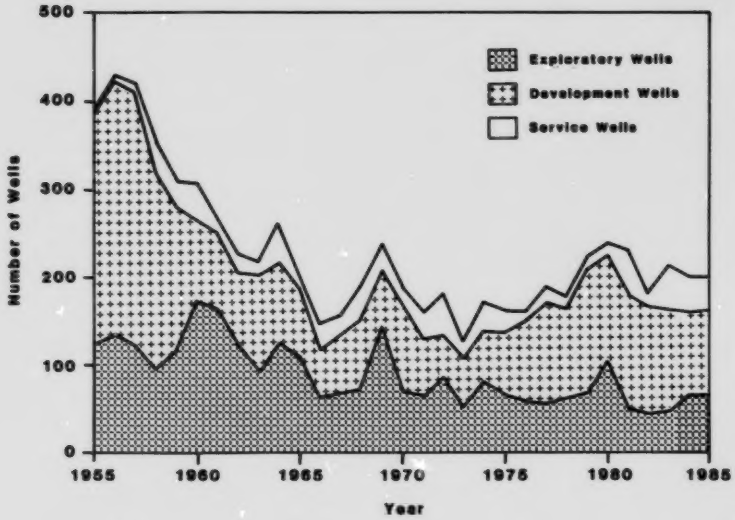


Figure 8. *Exploratory, Development, and Service Wells Drilled Annually in Ontario, 1955–1985.*

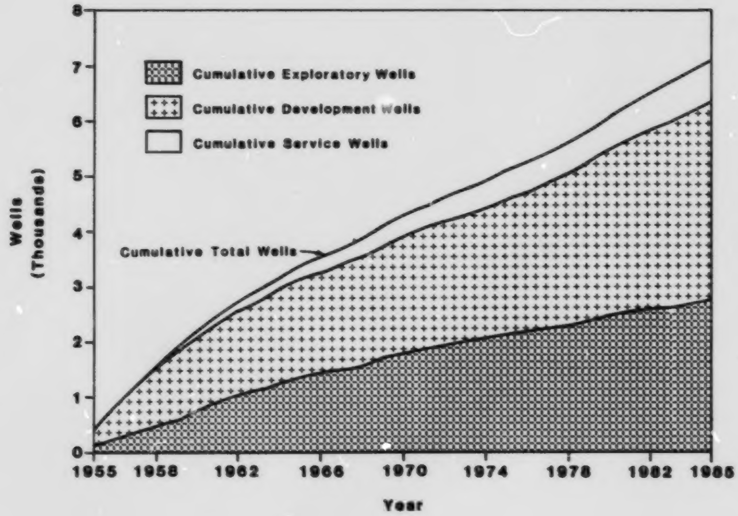


Figure 9. *Cumulative Exploratory, Development, and Service Wells Drilled in Ontario, 1955–1985.*

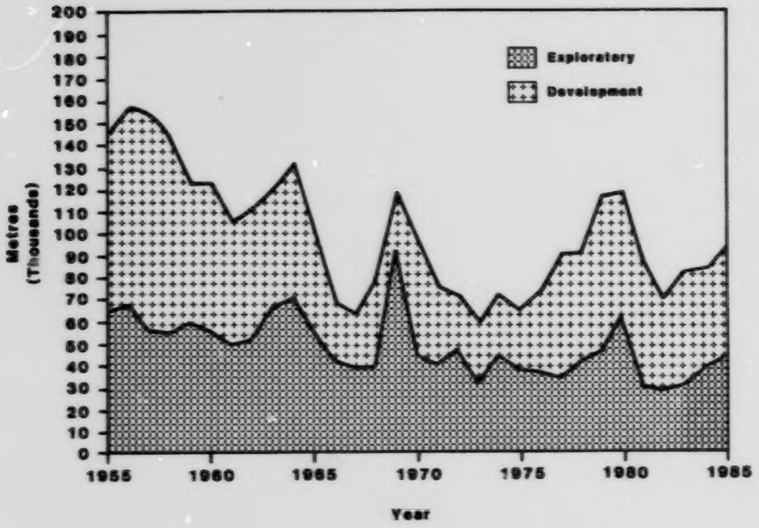


Figure 10. *Exploratory and Development Metres Drilled Annually in Ontario, 1955–1985.*

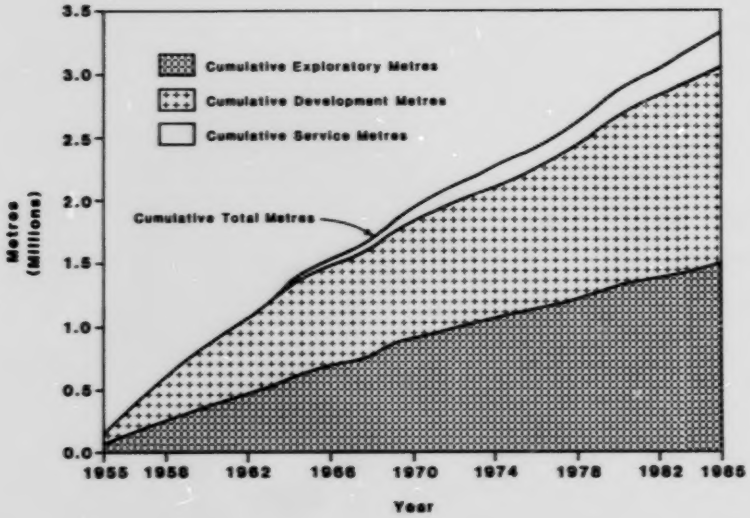


Figure 11. *Cumulative Exploratory, Development, and Service Metres Drilled in Ontario, 1955–1985.*

TABLE 9: DRILLING SUMMARY BY TARGET 1985.

	EXPLORATORY WELLS				DEVELOPMENT WELLS					
	Oil	Gas	Dry	Success Rate %	Oil	Gas	Dry	Success Rate %	Service	Total
Devonian	0	0	11	0	8	0	3	73	6	28
Silurian										
Clinton-Cataract	0	15	5	75	0	48	23	68	0	91
Salina-Guelph	4	1	17	23	4	0	4	50	16	46
Ordovician	1	1	10	17	9	1	1	91	0	23
Cambrian	0	1	8	11	0	0	0	--	0	9
Precambrian	0	0	0	--	0	0	0	--	2	2
TOTAL	5	18	51	31	21	49	31	69	24	199

VI. Production

1. LICENCES

In 1985, 149 licences to produce oil and gas were isssued, compared to 134 in 1984. Table I–4 lists persons licenced to produce gas and oil in 1985.

2. OIL PRODUCTION

Oil production in Ontario in 1985 increased dramatically to 112,953.6 m^3 from 90,333.3 m^3 in 1984, a 25% increase. The increased production was due almost entirely to the start of full production from the Hillman (Mersea 1–15–B) and Dover 7–5–V E pools. Together these two pools accounted for approximately 33% of the total Ontario oil production in 1985. The Hillman pool was the most productive in Ontario in 1985, followed by the Rodney (Devonian) and Dover 7–5–V pools (see Table 10, 11).

Both the Hillman and the Dover 7–5–V E pools are contained within dolomitized linear fracture zones in limestone of the Middle Ordovician Trenton and Black River Groups. Oil production in the Hillman Pool is derived from the Cobourg and Verulam Formations at the top of the Trenton Group. Production at the Dover 7–5–V E pool is derived principally from the Coboconk Formation at the top of the Black River Group.

There were 1,102 active oil wells in Ontario in 1985 with an average production rate of 102.5 m^3 per well (see Table 10, 11). Of this total only 42 were Ordovician producers. These Ordovician wells produced an average of 963.1 m^3 per well for the year, illustrating the relative productivity of these wells.

In 1985, for the first time, more oil was produced from Ordovician strata than from any other strata in Ontario. Ordovician production totalled 40,448.5 m^3, accounting for 35.8% of total Ontario production (Table 11). Devonian oil pools contributed 30.9% of the total oil produced in Ontario followed by Silurian pools with 27.5% then Cambrian with 5.8%. The trend of increasing importance of Ordovician oil production is expected to continue for the next several years in view of the increasing exporation effort being directed at Ordovician targets. Geographically, Lambton County led all other parts of Ontario in oil production in 1985, accounting for 36.1% of the total production, followed by Essex, Elgin, and Kent Counties (see Table 10, Figure 12). Ontario oil production was valued at $26,444,968 in 1985, at an average calculated price of $234.12 per cubic metre. This consisted of a total of $25,033,967.68 paid to Ontario producers by Esso Petroleum Canada in 1985 for crude oil delivered to its Sarnia oil terminal, and $1,411,000 in NORP (New Oil Reference Price) and SOOP (Special Old Oil Price) supplements paid to Ontario producers by the federal government under the National Energy Program. The National Energy Program ended on June 1, 1985 with deregulation of Canadian oil prices. A total of $5,999,962.66 in supplements was paid to Ontario producers over the duration of the program from January, 1982 to June 1985. This consisted of $4,726,543.34 in NORP supplements, and $1,273,419.32 in SOOP supplements. Table 12 and Figure 13 and 14 show the NORP and SOOP prices paid for D2–S3 oil over the duration of the program.

Historical data on production of oil in Ontario are summarized in Table 13 and Figures 15 and 16.

TABLE 10: OIL PRODUCTION BY POOL OR FIELD, 1985.

County/ Pool Name	Active Wells	Production 1985 m^3	Operator 1985
ELGIN			
Aldborough 3-8-16-XII	2	425.8	Consumers
Aldborough 4-A-VIII	1	53.4	Realoil
Dunwich 16-I	2	243.6	Den-mar
Dunwich 18-I	1	33.5	Den-mar
Rodney	123	19,217.6	Canadian Occidental, Rayrock
Wallacetown	6	118.8	Paladin
Willey	7	2,755.7	Sasko
Subtotal	142	22,848.4	
% of Ont Total		20.2%	
ESSEX			
Colchester	6	930.4	Gaiswinkler, Putnam
Comber	1	10.5	Nablis
Gosfield South	8	937.1	Gaiswinkler
Hillman	11	24,451.8	Consumers
Malden	4	265.7	Gaiswinkler
Malden 3-41-IV	1	115.0	Gaiswinkler
Rochester 1-20-V EBR	1	135.3	Revallee
Staples	1	247.3	Brett
Subtotal	33	27,093.1	
% of Ont Total		24.0%	
HALTON			
Hornby	1	8.0	Herman
Subtotal	1	8.0	
% of Ont Total		.0%	
HURON			
Grand Bend	6	2,235.1	Sunburst
Tipperary	1	77.0	Paladin
Subtotal	7	2,312.1	
% of Ont Total		2.0%	
KENT			
Bothwell-Thamesville	33	1,410.2	Koyden, Pope, Sitler
Chatham	2	249.7	Francisco, Riddell
Clearville	10	2,175.6	Murphy
Dover	4	330.4	Francisco, Comfort, Marvan II
Dover 1-11-V E	1	6.8	Rowe
Dover 7-5-V E	4	13,214.6	Rowe
Dresden	1	114.0	Brett
Fletcher	6	44.7	Consumers
Morpeth	N/A	42.7	Consumers
Prairie Siding	11	37.3	Nablis, Stevenson
Zone 6-5-IV	1	20.0	Paladin
Subtotal	73	17,646.0	
% of Ont Total		15.6%	
LAMBTON			
Becher West	17	5,049.8	Murphy
Brigden	2	194.8	Consumers
Brooke	5	817.8	Crich
Brooke 1-9-X	1	133.0	Bluewater
Brooke 2-24-X	1	6.6	Ram
Corey East	1	2,788.0	Ram
Corunna	10	1,795.1	Esso
Cromar	2	475.7	Corden, Ram

TABLE 10: CONTINUED.

County/ Pool Name	Active Wells	Production 1985 m^3	Operator 1985
LAMBTON (Cont.)			
Dawn 156	1	94.2	Union
Dawn 28-II	5	2,756.0	Brookwood, Forbes
Dawn 4-28-III	1	69.0	Brookwood
Dawn Misc.	13	1,577.1	Colonial, Forbes,JMCD, LMG, Proto, Union
Edys Mills	1	1,305.6	Ram
Enniskillen 2-30-IX	1	41.2	Bluewater
Enniskillen 7-30-IX	1	509.1	Francisco
Euphemia 8-18-IV	1	17.4	Paladin
Florence-Oakdale	3	21.6	Ashburn
Ladysmith	3	2,162.6	Michigan
Logierait	1	8.8	Brett
Moore 7-6-III	1	378.3	Crawford
Oil Springs	467	6,169.3	Ayrheart, Baldwin, Barnes, Byers, Donald, Fairbank, Golden, Johnston, Matheson, Mitchell, Morningstar, Patterson, Woods
Oil Springs East	1	24.5	Talcorp
Osborne	1	43.8	Michigan
Otter Creek East	1	283.6	Cameron
Petrolia	187	6,619.2	625138, Ayrheart, Bear, Bender, Bradley, Brand, Canflow, Cartier, Edward, Jacques, Lyons, Noble, Petrolia, Stevenson, Vye, Williams
Petrolia East	5	1,891.0	Ram
Plympton 5-19-VI	3	1,881.0	Bluewater
Seckerton	9	1,067.0	Esso
Seckerton North	5	767.0	Esso
Shetland	1	15.2	Annett
Sombra 18-VII	2	152.8	Crawford, Ram
Sombra 6-28-IX	1	95.4	Crawford
Sutorville	1	70.4	Brett
Wanstead	3	573.6	Roth & Roth
Warwick	1	552.3	Murphy
Warwick 6-17-IV SER	1	318.7	Bluewater
Wilsoncroft	1	9.1	S & W
Subtotal	761	40,735.6	
% of Ont Total		36.1%	
MIDDLESEX			
Ekfrid 10-V S	1	98.4	Den-mar
Ekfrid 8-V S	1	99.8	Den-mar
Glencoe	48	810.1	Bedford, Brett, Glencoe
Mosa 10-I R.S.	1	109.1	Gaiswinkler
Subtotal	51	1,117.4	
% of Ont Total		1.0%	
OXFORD			
Gobles	32	1,067.9	Gaiswinkler
Innerkip	2	125.1	Cameron, Gaiswinkler
Subtotal	34	1,193.0	
% of Ont Total		1.1%	
TOTAL	1102	112,953.6	

TABLE 11: OIL PRODUCTION BY GEOLOGICAL AGE, 1980-1985.

		m^3					
COUNTY	POOL NAME	1980	1981	1982	1983	1984	1985
DEVONIAN							
Elgin	Aldborough 3-8-16-XII	0.0	0.0	0.0	0.0	1653.0	425.8
	Rodney	23430.9	21720.6	20788.8	20307.8	19450.1	19217.6
	Wallacetown	151.9	151.9	36.4	63.0	55.9	118.8
Kent	Bothwell-Thamesville	1518.1	1403.9	1413.7	1477.8	1467.8	1410.2
	Prarie Siding	0.0	0.0	0.0	0.0	25.8	37.3
	Zone 6-5-IV	0.0	0.0	118.3	43.9	26.1	20.0
Lambton	Beaver Meadow	94.9	35.3	36.6	0.0	0.0	0.0
	Brooke 2-24-X	0.0	0.0	0.0	0.0	27.1	6.6
	Brooke 5-14-XII	0.0	0.0	0.0	12.1	4.0	0.0
	Florence-Oakdale	0.0	0.0	0.0	0.0	38.4	21.6
	London Road	0.0	0.0	0.0	0.0	0.0	0.0
	Oil Springs	4850.5	5396.0	5660.3	6069.7	5953.9	6169.3
	Petrolia	4917.2	4766.7	5445.4	6361.1	6244.6	6619.2
	Watford-Kerwood	0.0	0.0	0.0	52.9	0.0	0.0
	Wilsoncroft	0.0	24.5	8.8	31.8	7.7	9.1
Middlesex	Glencoe	0.0	249.0	293.5	356.1	264.7	810.1
	Subtotal - Devonian	34963.5	33747.9	33801.8	34776.2	35219.1	34865.6
	% of Ontario production	37.5	37.5	39.4	41.1	39.0	30.9
SILURIAN							
Essex	Comber	0.0	0.0	0.0	0.0	0.0	10.5
	Staples	0.0	0.0	0.0	0.0	360.4	247.3
Huron	Grand Bend	4269.6	3294.5	2956.8	2784.6	2459.4	2235.1
	Tipperary	148.8	250.2	133.8	128.3	118.8	77.0
	Tipperary South	0.0	0.0	159.1	9.0	0.0	0.0
Kent	Chatham	162.0	319.4	177.8	331.0	236.2	249.7
	Dresden	181.7	166.7	139.3	145.1	129.9	114.0
	Fletcher	0.0	0.0	10.5	135.1	418.4	44.7
	Morpeth	0.0	0.0	0.0	25.0	27.0	42.7
Lambton	Becher West	6636.9	6419.0	5722.7	5340.6	5255.6	5049.8
	Brigden	300.2	256.9	224.2	245.0	229.2	194.8
	Brooke	2783.7	2451.9	1667.5	1593.9	1023.9	817.8
	Brooke 1-9-X	784.7	535.0	351.9	296.9	178.6	133.0
	Corey East	158.9	1577.3	3961.7	3358.2	2997.6	2788.0
	Corunna	2403.7	3524.1	2601.7	2050.8	2185.2	1795.1
	Cromar	659.7	697.9	522.8	600.4	642.5	475.7
	Dawn 156	276.5	278.5	275.1	224.4	146.9	94.2
	Dawn 28-II	135.0	164.0	280.9	1554.9	4932.9	2756.0
	Dawn 4-28-III	0.0	0.0	86.7	272.8	160.4	69.0
	Dawn 5-29-IX	0.0	121.0	354.1	127.8	7.0	0.0
	Dawn Miscellaneous	1515.2	1192.5	1598.0	1789.9	2101.2	1577.1
	Edys Mills	1833.5	1906.7	1594.5	1406.0	1357.9	1305.6
	Enniskillen 2-30-IX	266.6	86.3	26.4	58.3	48.1	41.2
	Enniskillen 7-30-IX	0.0	0.0	0.0	0.0	644.2	509.1
	Euphemia 8-18-IV	0.0	0.0	0.0	0.0	0.0	17.4
	Ladysmith	2900.9	2351.7	2110.9	2123.1	2266.4	2162.6
	Logerait	0.0	0.0	0.0	0.0	0.0	8.8
	Moore 5-6-III	0.0	0.0	0.0	0.0	0.0	0.0
	Moore 7-6-III	0.0	568.4	699.8	562.5	567.6	378.3
	Moore 2-22-II	0.0	0.0	0.0	0.0	0.0	0.0
	Oil Springs East	363.0	68.0	47.0	22.9	14.4	24.5
	Osborne	28.6	149.9	94.1	76.5	47.5	43.8
	Otter Creek East	0.0	0.0	0.0	12.2	272.3	283.6
	Petrolia East	2835.4	2716.7	2279.1	1832.9	1915.8	1891.0
	Plympton 5-19-VI	3064.0	5400.7	4329.4	3269.7	2418.6	1881.0
	Seckerton	1928.6	1961.5	2061.2	1211.3	1986.7	1067.0
	Seckerton North	1563.9	1978.9	1792.5	1171.2	808.9	767.0
	Shetland	0.0	12.3	11.1	5.3	15.4	15.2
	Sombra 18-VII	164.9	191.3	105.3	108.8	142.5	152.8

TABLE 11: CONTINUED.

		m³					
COUNTY	**POOL NAME**	**1980**	**1981**	**1982**	**1983**	**1984**	**1985**
Lambton (Cont.)	Sombra 4-9-XII	0.0	0.0	5.6	4.3	0.0	0.0
	Sombra 6-28-IX	19.0	55.1	99.0	110.6	108.1	95.4
	Sutorville	104.6	105.7	96.0	98.9	84.2	70.4
	Wanstead	703.0	495.5	691.2	705.8	700.1	573.6
	Warwick	922.8	860.6	767.8	688.4	584.8	552.3
	Warwick 6-17-IV SER	457.6	433.5	311.9	50.8	452.7	318.7
Middlesex	Mosa	175.0	144.0	130.0	129.6	108.2	109.1
	Subtotal - Silurian	37748.0	40735.7	38477.4	34662.8	38155.5	31039.9
	% of Ontario production	40.5	45.2	44.9	41.0	42.2	27.5
				ORDOVICIAN			
Elgin	Aldborough 4-A-VIII	361.6	346.7	188.0	119.1	77.0	53.4
Essex	Colchester	696.4	709.7	864.4	953.4	887.8	930.4
	Gosfield South	3646.7	1951.0	1444.3	1223.5	1189.4	937.1
	Gosfield South 1-I_III	0.0	0.0	0.0	0.0	0.0	0.0
	Gosfield South 8-7-V	0.0	0.0	0.0	0.0	0.0	0.0
	Hillman	0.0	0.0	0.0	0.0	738.5	24451.8
	Maidstone 7-17-V	0.0	0.0	0.0	0.0	0.0	0.0
	Malden	418.4	346.2	339.4	348.9	349.5	265.7
	Malden 3-41-IV	262.4	270.6	165.6	149.7	106.7	115.0
	Mersea 7-15-A	0.0	0.0	0.0	0.0	0.0	0.0
	Mersea 2-15-B	0.0	0.0	0.0	0.0	0.0	0.0
	Mersea 6-15-B	0.0	0.0	0.0	0.0	0.0	0.0
	Mersea 6-16-B	0.0	0.0	0.0	0.0	0.0	0.0
	Mersea 6-23-VII	0.0	0.0	0.0	0.0	0.0	0.0
	Rochester 1-20-V EBR	0.0	0.0	0.0	0.0	69.8	135.3
	Ruscom River	57.0	29.0	0.0	0.0	0.0	0.0
Halton	Hornby	0.0	0.0	0.0	0.0	0.0	8.0
Kent	Dover	75.7	55.8	54.7	851.2	651.5	330.4
	Dover 1-11-V E	0.0	0.0	0.0	0.0	3.3	6.8
	Dover 7-5-V E	0.0	0.0	0.0	2953.3	5380.3	13214.6
	Romney 3-8-II	0.0	0.0	0.0	0.0	0.0	0.0
	Romney 6-13-III	0.0	0.0	0.0	0.0	0.0	0.0
	Tilbury East 1-24-IX	0.0	0.0	0.0	0.0	0.0	0.0
Manitoulin	Manitoulin	0.0	0.0	0.0	17.7	0.0	0.0
	Subtotal - Ordovician	5518.2	3709.0	3056.4	6616.8	9453.8	40448.5
	% of Ontario production	5.9	4.1	3.6	7.8	10.5	35.8
				CAMBRIAN			
Elgin	Dunwich 16-I	0.0	249.6	458.3	329.8	333.8	243.6
	Dunwich 18-I	79.1	33.4	62.1	32.9	64.2	33.5
	Willey	7108.2	5382.0	4706.7	3843.0	3038.6	2755.7
Kent	Clearville	3471.4	3102.8	2890.6	2208.5	2325.2	2175.6
	Zone 5-III	54.5	42.0	31.0	18.7	7.0	0.0
Middlesex	Ekfrid 10-V-S	176.3	53.6	91.6	138.2	98.3	98.4
	Ekfrid 8-V-S	130.7	60.3	0.0	92.1	135.6	99.8
	Willey North	573.7	472.9	387.1	166.0	26.4	0.0
Oxford	Gobles	3364.4	2425.1	1562.9	1438.1	1294.5	1067.9
	Innerkip	83.7	79.5	171.1	277.7	181.3	125.1
	Innerkip East	0.0	0.0	7.0	9.5	0.0	0.0
	Subtotal - Cambrian	15042.0	11901.2	10368.4	8554.5	7504.9	6599.6
	% of Ontario production	16.1	13.2	12.1	10.1	8.3	5.8
	Total production	93271.7	90093.8	85704.0	84610.3	90333.3	112953.6

TABLE 12: COOP, NORP, AND SOOP OIL PRICES, 1982-1985.

Month	Coop	Norp	Norp Supp	Soop	Soop Supp
Jan 1/1982	147.25	278.00	130.75		
Feb 1/1982	147.25	278.00	130.75		
Mar 1/1982	147.25	278.00	130.75		
Apr 1/1982	147.25	278.00	130.75		
May 1/1982	147.25	278.00	130.75		
June 1/1982	147.25	278.00	130.75		
July 1/1982	161.10	260.95	99.85	189.00	27.90
Aug 1/1982	161.10	260.95	99.85	189.00	27.90
Sept 1/1982	161.10	260.95	99.85	189.00	27.90
Oct 1/1982	161.10	272.90	111.80	195.80	34.70
Nov 1/1982	161.10	272.90	111.80	195.80	34.70
Dec 1/1982	161.10	272.90	111.80	195.80	34.70
Jan /1983	185.85	271.20	85.35	193.45	7.60
Feb /1983	185.85	268.40	82.55	191.30	5.45
Mar /1983	185.85	268.40	82.55	191.30	5.45
Apr /1983	185.85	264.95	79.10	189.55	3.70
May /1983	185.85	261.40	75.55	186.80	0.95
June 1/1983	185.85	257.40	71.55	185.85	0.00
July 1/1983	185.85	246.10	60.25	246.10	60.25
Aug 1/1983	185.85	235.80	49.95	235.80	49.95
Sept 1/1983	185.85	227.70	41.85	227.70	41.85
Oct 1/1983	185.85	227.70	41.85	227.70	41.85
Nov 1/1983	185.85	235.45	49.60	235.45	49.60
Dec 1/1983	185.85	238.50	52.65	238.50	52.65
Jan 1/1984	185.85	242.05	56.20	242.05	56.20
Feb 1/1984	185.85	242.05	56.20	242.05	56.20
Mar 1/1984	185.85	242.05	56.20	242.05	56.20
Apr 1/1984	185.85	247.70	61.85	247.70	61.85
May 1/1984	185.85	248.50	62.65	248.50	62.65
June 1/1984	185.85	253.00	67.15	253.00	67.15
July 1/1984	185.85	253.90	68.05	253.90	68.05
Aug 1/1984	185.85	258.30	72.45	258.30	72.45
Sept 1/1984	185.85	254.90	69.05	254.90	69.05
Oct 1/1984	185.85	257.00	71.15	257.00	71.15
Nov 1/1984	185.85	255.20	69.35	255.20	69.35
Dec 1/1984	185.85	252.35	66.50	252.35	66.50
Jan 1/1985	185.85	252.35	66.50	252.35	66.50
Feb 1/1985	185.85	252.85	67.00	252.85	67.00
Mar 1/1985	185.85	253.95	68.10	253.95	68.10
Apr 1/1985	185.85	258.70	72.85	258.70	72.85
May 1/1985	185.85	254.30	68.45	254.30	68.45

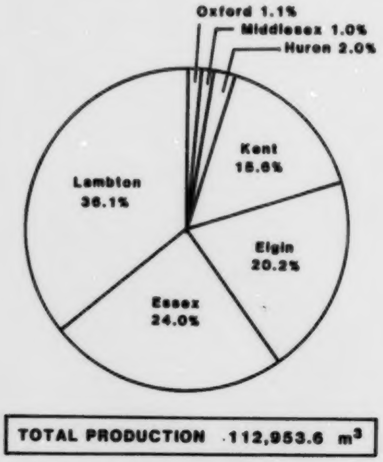


Figure 12. *Percentage Oil Production by County.*

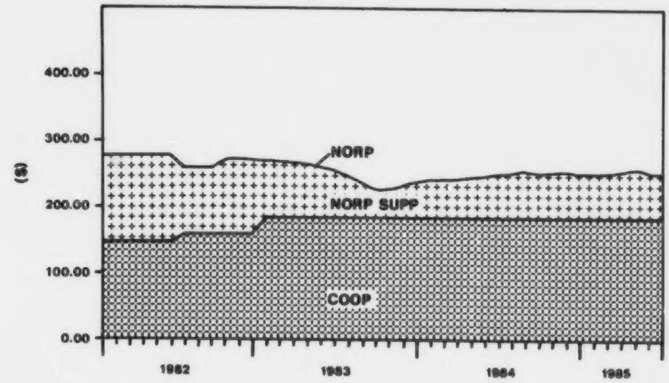


Figure 13. *COOP and NORP Values, 1982–1985.*

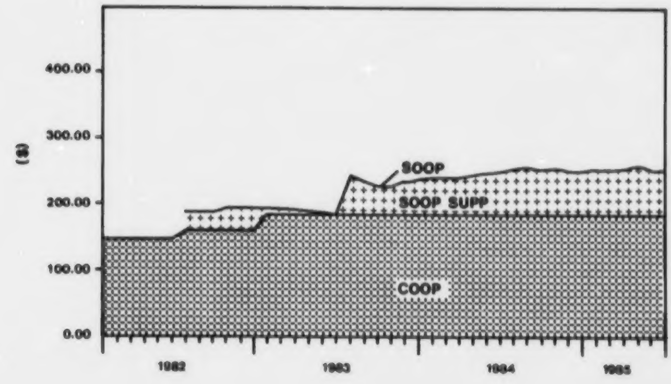


Figure 14. *COOP and SOOP Values, 1982–1985.*

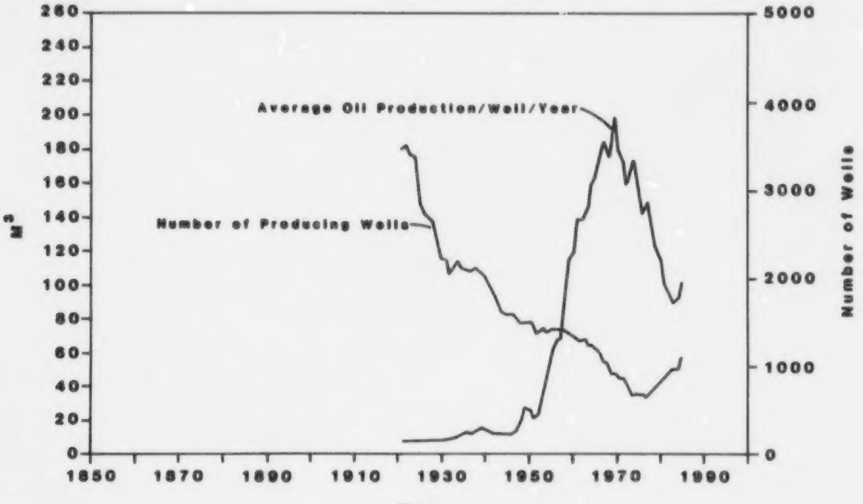


Figure 15. *Number of Producing Oil Wells and Average Oil Production/Well/Year 1921–1985.*

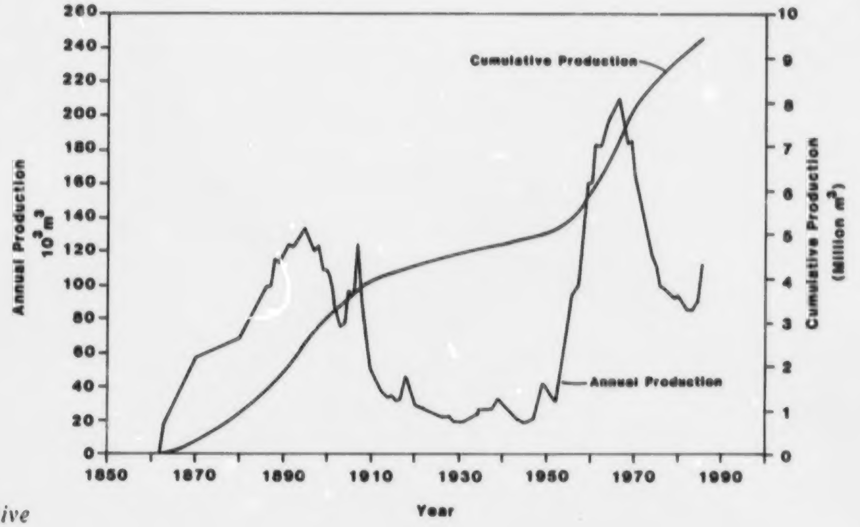


Figure 16. *Annual and Cumulative Oil Production 1863–1985.*

TABLE 13: HISTORICAL OIL PRODUCTION 1863 - 1985.

Year	Number of Producing Oil Wells	Oil Production M^3	Aver. Oil Production /Well/Year	Cumulative Oil Production
1863		18125		18125
1864		23530		41655
1865		28936		70590
1866		34341		104931
1867		39747		144678
1868		45152		189831
1869		50558		240388
1870		56774		297163
1871		57911		355073
1872		59047		414120
1873		60183		474303
1874		61319		535623
1875		62456		598078
1876		63592		661670
1877		64728		726398
1878		65865		792263
1879		67001		859264
1880		68137		927401
1881		72673		1000074
1882		77222		1077295
1883		81765		1159060
1884		87216		1246276
1885		93120		1339396
1886		97663		1437059
1887		98572		1535631
1888		115266		1650896
1889		112881		1763777
1890		119240		1883017
1891		123215		2006232
1892		121625		2127857
1893		127190		2255047
1894		131164		2386211
1895		132754		2518965
1896		124010		2642975
1897		119240		2762216
1898		122420		2884636
1899		108906		2993542
1900		107316		3100858
1901		99367		3200225
1902		84263		3284488
1903		75519		3360007
1904		77109		3437115
1905		96187		3533302
1906		93637		3626939
1907		123990		3750929
1908		84097		3835027
1909		66880		3901906
1910		49987		3951893
1911		45889		3997782
1912		38306		4036088
1913		35958		4072045
1914		33784		4105829
1915		34094		4139923
1916		31301		4171224
1917		32273		4203497
1918		45909		4249406
1919		34993		4284399
1920		28896		4313295
1921	3465	27482	8	4340777
1922	3506	26190	7	4366967
1923	3407	25342	7	4392310

TABLE 13: CONTINUED.

Year	Number of Producing Oil Wells	Oil Production M^3	Aver. Oil Production /Well/Year	Cumulative Oil Production
1924	3379	24534	7	4416844
1925	2884	22934	8	4439778
1926	2752	21777	8	4461555
1927	2708	22195	8	4483750
1928	2641	21330	8	4505080
1929	2443	19257	8	4524338
1930	2222	18650	8	4542987
1931	2208	19454	9	4562442
1932	2056	20723	10	4583164
1933	2151	21631	10	4604796
1934	2201	22478	10	4627274
1935	2109	26239	12	4653514
1936	2079	26311	13	4679825
1937	2082	26265	13	4706090
1938	2110	27448	13	4733538
1939	2065	32812	16	4766350
1940	2028	29833	15	4796183
1941	1956	25348	13	4821531
1942	1852	22870	12	4844401
1943	1728	21064	12	4865465
1944	1609	19884	12	4885349
1945	1579	18017	11	4903367
1946	1610	19568	12	4922935
1947	1559	20874	13	4943809
1948	1489	28139	19	4971948
1949	1518	41443	27	5013391
1950	1513	39851	26	5053243
1951	1471	31348	21	5084590
1952	1381	30496	22	5115086
1953	1423	47646	33	5162732
1954	1396	65578	47	5228311
1955	1433	83549	58	5311860
1956	1422	94338	66	5406198
1957	1428	99155	69	5505353
1958	1412	123746	88	5629099
1959	1384	159239	115	5788338
1960	1339	159787	119	5948125
1961	1312	182690	139	6130815
1962	1300	180377	139	6311192
1963	1311	191639	146	6502831
1964	1243	198207	159	6701038
1965	1234	203371	165	6904408
1966	1183	210464	178	7114873
1967	1068	197192	185	7312064
1968	1041	182959	176	7495024
1969	929	184726	199	7679749
1970	920	166693	181	7846442
1971	873	152326	174	7998768
1972	878	139608	159	8138376
1973	756	128565	170	8266941
1974	673	116707	173	8383649
1975	693	111978	162	8495627
1976	695	98812	142	8594439
1977	658	98372	150	8692811
1978	715	95144	133	8787956
1979	760	92932	122	8880888
1980	804	93272	116	8974160
1981	871	90094	103	9064253
1982	916	85704	94	9149957
1983	952	84610	89	9234568
1984	961	90333	94	9324901
1985	1102	112954	102	9437855

3. GAS PRODUCTION

Production of natural gas in 1985 amounted to 588,745.9 thousand m³. This consisted of 430,784.8 thousand m³ from wells on Lake Erie, and 157,961.1 thousand m³ from wells on land. Both totals represent an increase from 1984 production (see Table 14, 15).

The most productive gas pools in 1985 were once again the Maitland Pool (Lake Erie) with 25.5% of total production and the Morpeth Pool (Lake Erie) with 17.8%, followed by the Silver Creek Pool (Lake Erie) with 11.6%, the Sarnia 1–8–A Pool with 10.2%, and the Clear Creek Pool (Lake Erie) with 9%.

As in the previous 3 years the bulk of the natural gas production in 1985 was derived from relatively thin but laterally extensive nearshore and deltaic sandstones of the Thorold and Grimsby Formations, with some additional contribution from shelf and fluvial sandstones of the Whirlpool Formation, and carbonates of the Reynales Formation. Reservoirs consist of porosity and permeability pinchouts in the sandstone units. Production from these 'Clinton–Cataract' reservoirs amounted to 56.6% of total production in 1985. Most of the remaining gas production was derived from dolomitized reefal carbonates of the Guelph Formation and the A–1 and A–2 Carbonate Units of the Salina Group.

Geographically wells on Lake Erie once again produced the bulk of the natural gas in Ontario, accounting for 73.2% of production in 1985. Cumulative natural gas production from Lake Erie for the period 1960–1985 amounted to 5,825,257 thousand m³ (Table 16). Lambton County accounted for the bulk of onshore production (see Figure 17, 18).

There were 1,196 active gas wells in Ontario in 1985. Average production per well in 1985 was 492.3 thousand m³, up marginally from 1984. Cumulative production of natural gas in Ontario for the period 1905–1985 totalled 26,443,332.8 thousand m³ (see Table 17).

The average price paid by Union Gas to Ontario producers in 1985 was $128.73 per thousand m³. Based on this price the total value of Ontario production in 1985 was approximately $75.8 million.

Historical data on production of natural gas in Ontario is summarized in Table 17 and Figures 19 to 22 inclusive.

4. SOURCES OF PRODUCTION AND RESERVOIR DATA IN ONTARIO

The production tables included in this report were compiled utilizing a variety of sources including previous Annual Reports, Oil and Gas Papers, and Open File Reports prepared by Bailey and Cochrane (1984 a, b, 1985, 1986). The latter report provides a detailed description of the various sources of data available and the problems one encounters when attempting to assemble a production history for any particular pool. The entire section is reprinted here as it is a valuable aid to anyone utilizing production data available in files of the Petroleum Resources Section, Ministry of Natural Resources.

"As a condition for the receipt or renewal of a licence to produce oil and gas in Ontario, the Ontaro Ministry of Natural Resources (OMNR) requires the operator to submit annually a tabulation of the oil and gas produced by well and by field for the previous year; OMNR Form 109 is used for gas and Form 108 for oil production. the OMNR also receives annual records of gas purchases by the utilities, primarily, Union Gas Ltd. and Consumers' Gas Co.; and records of oil purchases from the refiners, primarily, Imperial Oil Ltd.

TABLE 14: GAS PRODUCTION BY POOL OR FIELD, 1985.

County/ Pool Name	Active Wells 1985	Production 1985 1000 m³	Operator 1985
BRANT			
Brant	20	394.3	Hyslop
Subtotal	20	394.3	
% of Ont Total		--	
ELGIN			
Aldborough 4-20-VII	1	130.7	Intrex
Cowal	2	280.4	Union
Townline	9	659.6	Cameron, Union
Subtotal	12	1,070.7	
% of Ont Total		0.2%	
HALDIMAND			
Haldimand	124	1,614.9	Emerson, Fisherville, Glenfred, Lincoln Wellandport
Subtotal	124	1,614.9	
% of Ont Total		0.3%	
HURON			
Bayfield	2	587.0	Paladin
Stanley 4-7-XI	2	2,738.5	Paladin
Tipperary	2	843.6	Paladin
Tipperary South	1	910.8	Paladin
Subtotal	7	5,079.9	
% of Ont Total		0.9%	
KENT			
Botany	2	875.6	Cameron
Camden 1-11-XIV Gore	1	1,083.2	Consumers
Camden Gore	11	1,487.8	Union
Chatham	14	1,328.1	Union, York
D'Clute	1	213.6	Union
Dover	4	1,277.8	Union
Dover 7-10-VI E	1	107.1	J.W.K.
Morpeth	8	695.2	Pegg
Tilbury	30	5,766.7	Union
Wolfe	1	129.8	Bedford
Zone	29	1,588.2	Union
Subtotal	102	14,553.1	
% of Ont Total		2.5%	
LAMBTON			
Becher West	25	1,357.1	Murphy
Brigden	2	770.5	Consumers
Charlemont	1	136.6	Cameron
Corunna	2	142.0	Esso
Coveny	1	2,226.1	Union
Cromar	1	531.5	Forbes
Dawn 1	7	427.5	Union
Dawn 1-27-VI	2	15,562.4	Union
Dawn 5-30-IV	2	446.1	Union
Dawn 7-28-V	1	1,360.3	Union
Dawn Misc.	12	939.6	Union, Colonial, Forbes
Edys Mills	1	3,553.1	Ram
Edys Mills East	1	99.6	Ram
Moore 3-21-XII	3	5,646.0	Dow
Moore 7-27-VI	1	1,132.5	Consumers, Ram
Oil City	2	5,834.0	Union
Oil Springs East	1	2,829.6	Talcorp

TABLE 14: CONTINUED.

County/ Pool Name	Active Wells 1985	Production 1985 1000 m^3	Operator 1985
LAMBTON (Cont.)			
Otter Creek	5	845.0	Cameron, Ram
Otter Creek East	3	473.4	Brett
Sarnia 1-8-A	2	60,173.0	Dow
Sombra 4-9-XII	1	26.0	S.W.Petroleum
Subtotal	76	104,511.9	
% of Ont Total		17.7%	
LINCOLN			
Lincoln	10	249.2	Consumers
Subtotal	10	249.2	
% of Ont Total		--	
NORFOLK			
Hemlock	6	925.0	Hemlock
Norfolk	172	19,886.1	Bayview, Chatham, Colonial, Consumers, Craven, Explorer, Freeman, Metalore, Morrison, Stuyt
Venison Creek	14	2,800.6	Explorer
Subtotal	192	23,611.7	
% of Ont Total		4.0%	
OXFORD			
Innerkip	4	4,418.7	Canadian Games, Nith
Innerkip East	1	289.8	Canadian Games
Subtotal	5	4,708.5	
% of Ont Total		0.8%	
WELLAND			
Welland	35	950.4	Consumers, Dark, Fox, Marr, Ort, Ruch, Simon, Willoyd
Subtotal	35	950.4	
% of Ont Total		0.2%	
WELLINGTON			
Arthur	3	1,216.5	Kenartha
Subtotal	3	1,216.5	
% of Ont Total		0.2%	
ONSHORE Subtotal	586	157,961.1	
% of Ont Total		26.8%	
LAKE ERIE PRODUCTION UNITS			
Clear Creek	70	53,904.9	Consumers
D'Clute	10	2,197.9	C.W.P., Pembina
Dover	55	13,930.5	C.W.P., Mitchell, Place
Leepfrog	8	3,888.4	Consumers
Maitland	235	150,374.8	Mitchell, Pembina, Place
Morpeth	26	105,008.1	Consumers
Selkirk	68	15,931.1	Mitchell, Place
Silver Creek	67	68,463.2	Consumers
Tilbury	71	17,085.9	C.W.P.
LAKE ERIE Subtotal	610	430,784.8	
% of Ont Total		73.2%	
TOTAL	1196	588,745.9	

TABLE 15: NATURAL GAS PRODUCTION BY GEOLOGICAL AGE, 1980-1985.

		1000 m^3					
COUNTY	**POOL NAMES**	**1980**	**1981**	**1982**	**1983**	**1984**	**1985**
				SILURIAN CLINTON/CATARACT			
Brant	Brant	439.7	485.6	351.6	382.3	407.4	394.3
Haldimand	Haldimand	1485.8	2476.2	1969.3	1822.9	1660.1	1614.9
Lincoln	Lincoln	267.1	215.5	219.8	228.2	276.6	249.2
Norfolk	Hemlock	1735.1	1399.2	1133.4	737.1	724.5	925.0
	Norfolk	26217.6	25092.9	20387.2	19305.4	19547.2	19886.1
	Venison Creek	2407.9	3145.7	4604.4	4181.1	3567.8	2800.6
	Wilsonville	0.0	105.4	0.0	0.0	0.0	0.0
	Wilsonville South	344.6	45.2	0.0	0.0	0.0	0.0
Oxford	Norwich South	70.6	26.7	0.0	0.0	0.0	0.0
Welland	Welland	1985.4	1914.9	681.9	719.0	783.0	950.4
Lake Erie	Clear Creek	37333.9	50194.9	43357.0	53613.8	48429.5	53904.9
	Colborne	0.0	0.0	0.0	0.0	0.0	0.0
	Dover	17823.5	16134.8	14233.0	17207.0	16243.0	13930.5
	Leepfrog	5107.2	7453.8	6348.4	7417.0	4345.5	3888.4
	Maitland	66962.8	71029.7	115654.0	115526.2	140992.1	150374.8
	Selkirk	14853.9	13828.0	12937.0	12036.8	13049.0	15931.1
	Silver Creek	64643.4	55217.0	42709.9	53618.9	74863.7	68463.2
	Subtotal - Clin/Cat	241678.5	248765.5	264586.9	286795.7	324889.4	333313.4
	% of Ontario production	53.8	48.1	51.6	54.8	59.6	56.6
				SILURIAN SALINA/GUELPH			
Elgin	Aldborough 4-20-VII	22.5	77.6	351.2	18.3	2.3	130.7
	Cowal	246.1	316.4	363.8	315.0	291.9	280.4
	Townline	2311.0	2311.0	2246.4	2021.7	1162.7	659.6
Huron	Bayfield	0.0	0.0	0.0	1705.9	1525.9	587.0
	Stanley 4-7-XI	0.0	0.0	0.0	0.0	0.0	2738.5
	Tipperary	525.5	1864.5	1451.8	1013.1	1003.1	843.6
	Tipperary South	57.7	1504.1	2389.1	1191.6	936.5	910.8
Kent	Botany	95.7	936.1	1029.1	631.4	1023.2	875.6
	Camden 1-11-XIV Gore	0.0	0.0	0.0	0.0	0.0	1083.2
	Camden Gore	1692.1	1281.5	1369.3	1449.4	1447.1	1487.8
	Chatham	1422.4	1002.5	1163.9	1265.5	1028.7	1328.1
	D'Clute	202.8	283.5	223.4	209.6	265.2	213.6
	Doyles	0.0	0.0	0.0	0.0	0.0	0.0
	Morpeth	881.6	843.3	701.8	756.2	722.3	695.2
	Tilbury	7916.8	8568.1	6817.9	6971.6	6044.2	5766.7
	Wolfe	122.4	130.5	112.5	169.8	146.4	129.8
	Zone	1808.5	1853.2	1971.1	1943.1	1752.2	1588.2
Lambton	Avonry	0.0	0.0	0.0	0.0	0.0	0.0
	Becher East	545.2	314.9	0.0	14.6	0.0	0.0
	Becher West	1335.6	1342.5	958.6	1066.2	1689.4	1357.1
	Brigden	1659.8	1317.3	1051.4	915.2	876.2	770.5
	Charlemont	179.1	202.2	135.9	97.2	134.9	136.6
	Colinville East	0.0	0.0	0.0	0.0	0.0	0.0
	Corunna	0.0	0.0	141.6	176.2	183.4	142.0
	Coveny	184.1	8064.5	3911.6	2505.7	902.1	2226.1
	Cromar	951.1	571.6	484.6	262.5	839.7	531.5
	Dawn 1	657.6	628.1	735.0	583.7	971.3	427.5
	Dawn 1-27-VI	0.0	0.0	0.0	0.0	0.0	15562.4
	Dawn 7-28-V	3316.9	5766.4	2685.8	3266.1	2444.3	1360.3
	Dawn 5-29-IX	885.9	1358.0	1297.0	525.3	0.0	0.0
	Dawn 2-30-XIV	0.0	0.0	0.0	0.0	0.0	0.0
	Dawn 5-30-IV	453.8	34.8	155.5	353.4	339.2	446.1
	Dawn Miscellaneous	2905.1	3840.2	2442.5	2602.8	2116.0	939.6
	Edys Mills	0.0	0.0	1756.3	2835.0	3838.9	3553.1
	Edys Mills East	0.0	0.0	172.9	277.3	139.0	99.6
	Enniskillen 26	0.6	0.1	0.1	0.0	0.0	0.0
	Logierait	0.0	0.0	0.0	0.0	0.0	0.0
	Moore 5-6-III	0.0	0.0	0.0	0.0	0.0	0.0
	Moore 3-21-XII	79762.8	98016.6	79671.2	61378.0	60946.0	5646.0

TABLE 15: CONTINUED.

		1000 m³					
COUNTY	**POOL NAMES**	**1980**	**1981**	**1982**	**1983**	**1984**	**1985**
Lambton (Cont.)	Moore 2-22-II	0.0	0.0	0.0	0.0	0.0	0.0
	Moore 7-27-VI	0.0	0.0	0.0	0.0	106.1	1132.5
	Oil City	0.0	0.0	0.0	2587.2	6397.8	5834.0
	Oil Springs East	19148.0	10153.0	6218.0	5794.8	4310.2	2829.6
	Otter Creek	785.4	346.9	433.8	1090.1	966.4	845.0
	Otter Creek East	474.6	471.4	441.3	605.1	484.6	473.4
	Sarnia 1-8-A	0.0	0.0	0.0	308.7	0.0	60173.0
	Sombra 4-9-XII	0.0	384.2	1237.7	904.7	712.2	26.0
	Sombra 2-23-XII	0.0	0.0	0.0	0.0	0.0	0.0
Oxford	Brownsville	0.0	0.0	0.0	0.0	0.0	0.0
Lake Erie	Atlas	0.0	0.0	0.0	0.0	0.0	0.0
	D'Clute	2144.4	1891.6	2655.9	877.3	2122.9	2197.9
	Erieau	0.0	0.0	0.0	0.0	0.0	0.0
	Morpeth	47304.0	89008.4	94815.8	103197.8	85839.1	105008.1
	Tilbury	15684.1	14834.9	15977.1	15518.2	17902.2	17085.9
	Subtotal - Salina/Guelph	195683.2	259519.9	237570.9	227405.3	211613.6	248122.6
	% of Ontario production	43.6	50.1	46.3	43.5	38.8	42.1
				ORDOVICIAN			
Kent	Dover	3238.5	1319.8	1494.9	1209.4	1112.2	1277.8
	Dover 7-5-V E	0.0	0.0	0.0	0.0	0.0	0.0
	Dover 7-10-VI E	297.4	44.6	47.3	112.4	103.4	107.1
Lambton	Sombra 3-26-VI	0.0	0.0	0.0	0.0	0.0	0.0
Wellington	Arthur	1476.8	1135.4	1267.9	1235.6	1181.5	1216.5
	Subtotal - Ordovician	5012.7	2499.8	2810.1	2557.4	2397.1	2601.4
	% of Ontario production	1.1	0.5	0.5	0.5	0.4	0.4
				CAMBRIAN			
Kent	St. Patricks	0.0	0.0	0.0	0.0	0.0	0.0
Oxford	Blandford 3-7-VIII	0.0	0.0	0.0	0.0	0.0	0.0
	Innerkip	6057.4	6394.1	7117.2	5809.3	5708.9	4418.7
	Innerkip East	472.1	521.4	577.4	391.9	400.4	289.8
	Subtotal - Cambrian	6529.5	6915.5	7694.6	6201.2	6109.3	4708.5
	% of Ontario production	1.5	1.3	1.5	1.2	1.1	0.8
	Total production	448903.9	517700.7	512662.5	522959.6	545009.4	588745.9
		100.0	100.0	100.0	100.0	100.0	100.0

This information is the basis for the production figures published annually by the OMNR in the "Oil and Gas Exploration, Drilling and Production Summary". The annual summary lists the annual production by field, the shut-in pressure for gas wells, the well status, and the annual production for four previous years. The data is generally of good quality and can be used for the construction of pool decline curves.

If more detailed data is required, the Forms 108 and 109 can be reviewed at the OMNR Regional Office on 659 Exeter Road, London, Ontario. Production data can also be found in pool studies submitted by operators to support applications for waterflooding or unitization. In addition, some pool studies and production records have been published in various geological journals.

Details on the initial completion of a well are submitted by the operators on OMNR Form 107, but records of recompletions and workovers are not usually found in the Ministry files. Reservoir data is usually found in pool studies submitted by operators for unitization and waterflooding operations. The OMNR has a good record of crude oil analyses, gas analyses,

TABLE 16: LAKE ERIE GAS PRODUCTION, 1960 - 1985.

Year	No. of Active Wells	No. of Suspended Wells	1000 Cubic Metres	Average Production/ Well(1000 m^3)	Cumulative Production 1000 m^3
1960	127	17	102021.4	803.3	1083614.1
1961	145	41	92750.8	639.7	1176364.8
1962	172	49	87687.6	509.8	1264052.5
1963	168	74	100090.7	595.8	1364143.1
1964	196	63	97954.7	499.8	1462097.8
1965	225	57	105758.6	470.0	1567856.4
1966	228	60	125980.1	552.5	1693836.5
1967	200	86	117186.6	585.9	1811023.1
1968	222	81	103471.6	466.1	1914494.7
1969	223	107	117103.9	525.1	2031598.7
1970	250	90	144800.2	579.2	2176398.8
1971	268	47	143558.8	535.7	2319957.6
1972	272	59	175858.4	646.5	2495816.0
1973	285	49	181161.6	635.7	2676977.6
1974	291	73	151038.1	519.0	2828015.7
1975	272	107	160309.0	589.4	2988324.7
1976	279	114	80587.0	288.8	3068911.7
1977	320	141	157891.5	493.4	3226803.2
1978	328	100	212634.5	648.3	3439437.7
1979	344	119	213870.3	621.7	3653308.0
1980	376	NA	272426.3	724.5	3925734.3
1981	474	NA	324283.3	684.1	4250017.6
1982	444	NA	353013.6	795.1	4603031.2
1983	527	161	383651.0	728.0	4986682.2
1984	585	148	407790.0	697.1	5394472.2
1985	610	153	430784.8	706.2	5825257.0

core analyses, drill stem test data and electrical logs. Unless the field is undergoing secondary recovery, the OMNR has no record of the quantity of water produced in association with the hydrocarbons. When a field is being waterflooded, the operator makes an annual report of the amount of water used during the year and the injection pressures. All data submitted by operators is held in the confidential files for one year.

The format of the reports completed by the operators for submission to the Ministry has changed over the years. The OMNR has records of operator's submissions for gas wells back to the year 1943 and has records for oil wells back to 1954. Although there is some gas production data submitted by operators for previous years, the first year of continuous reporting in the OMNR files is 1943. From 1943 to 1953, the form used by the operators was called "Report of Mineral Production for the use of the Ontario Department of Mines, Toronto and the Dominion Bureau of Statistics, Ottawa". Unfortunately, on this form, the gas producer did not describe the actual location of the wells in any more detail than by county and township.

In the period 1954 to 1959, the form became "Form 15, Ontario Fuel Board Act, 1954, Annual Report by Person Producing, Storing, Transmitting or Distributing Natural Gas". The form evolved into "Ontario Department of Energy Resources Form 503" in the period 1960 to 1963, and the "Energy Act 1964 Form 401" from, 1964 to 1966. In 1967 the form was revised once again and, in 1968, it became the Form 109 which is still in use at this time.

For oil production, the first year of continuous reporting is 1954, and from that year to 1959, the form was called "Form 14 Ontario Fuel Board

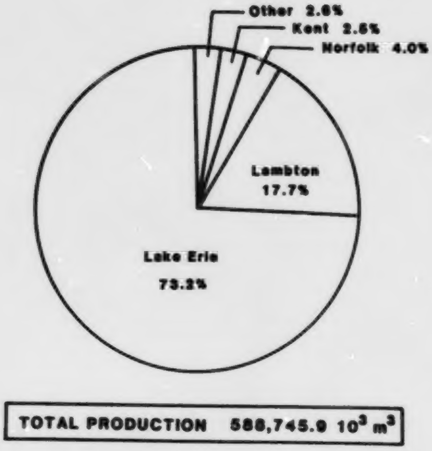


Figure 17. *Percentage Total Gas Production by Area, 1985.*

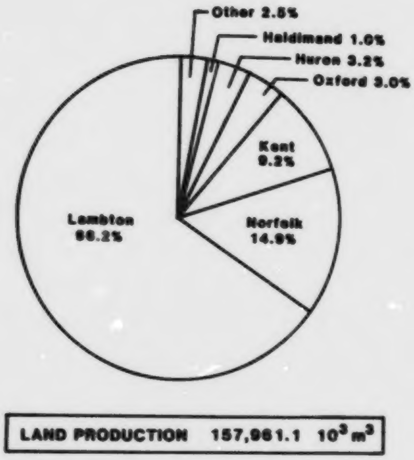


Figure 18. *Percentage Land Gas Production by County, 1985.*

TABLE 17: HISTORICAL GAS PRODUCTION 1905 – 1985.

Year	Number of Producing Gas Wells	Gas Production 1000 m³	Aver. Gas Production /Well/Year	Cumulative Gas Production
1905				1258145
1906		71788		1329933
1907		117728		1447661
1908		126994		1574655
1909		152630		1727285
1910		205754		1933039
1911		348770		2281808
1912		352820		2634629
1913		355752		2990381
1914		398369		3388750
1915		430932		3819681
1916		507893		4327574
1917		567305		4894879
1918		370171		5265050
1919		327563		5592613
1920		303938		5896551
1921	1915	241700	126	6138251
1922	1907	242721	127	6380972
1923	2004	230260	115	6611233
1924	2210	208802	94	6820035
1925	2125	205583	97	7025618
1926	2126	220291	104	7245909
1927	2217	207111	93	7453020
1928	2272	216219	95	7669239
1929	2349	243143	104	7912382
1930	2452	225020	92	8137402
1931	2606	210179	81	8347581
1932	2707	209234	77	8556815
1933	2821	203016	72	8759831
1934	2977	217639	73	8977470
1935	3127	231122	74	9208592
1936	3218	283469	88	9492061
1937	3252	304420	94	9796482
1938	3273	310269	95	10106751
1939	3322	338987	102	10445738
1940	3382	369775	109	10815513
1941	3429	335082	98	11150595
1942	3503	296784	85	11447379
1943	3511	224198	64	11671577
1944	3500	200632	57	11872209
1945	3612	203960	56	12076169
1946	3696	199748	54	12275917
1947	3793	220558	58	12496475
1948	3785	243348	64	12739824
1949	3812	227309	60	12967132
1950	3938	226891	58	13194024
1951	3951	239167	61	13433191
1952	3846	235183	61	13668374
1953	NA	278618	NA	13946992
1954	3211	283726	88	14230718
1955	3103	307438	99	14538156
1956	3083	362925	118	14901082
1957	3057	407947	133	15309029
1958	2931	457438	156	15766466
1959	2900	477019	164	16243485
1960	2792	481207	172	16724692
1961	2728	412005	151	17136697
1962	2472	443282	179	17579979
1963	2449	450981	184	18030960
1964	2262	391377	173	18422336
1965	2208	359749	163	18782085

TABLE 17: CONTINUED.

Year	Number of Producing Gas Wells	Gas Production 1000 m^3	Aver. Gas Production /Well/Year	Cumulative Gas Production
1966	2098	440134	210	19222219
1967	2043	402769	197	19624989
1968	1986	341799	172	19966788
1969	1834	318345	174	20285133
1970	1672	471643	282	20756776
1971	1439	457997	318	21214773
1972	1292	350561	271	21565333
1973	1187	269911	227	21835244
1974	1130	213506	189	22048750
1975	1083	309778	286	22358528
1976	1070	140439	131	22498966
1977	1034	241522	234	22740489
1978	1017	352997	347	23093485
1979	1078	377576	350	23471061
1980	1066	448904	421	23919965
1981	1141	517701	454	24437666
1982	1086	512663	472	24950328
1983	1169	522960	447	25473288
1984	1128	545009	483	26018297
1985	1196	588746	492	26607043

Act". It became "Form 502 Ontario Department of Energy Resources" from 1960 to 1963 and then 'Form 108 Energy Act 1964" from 1964 to 1966. Form 108 was revised in 1967 and is presently in use at this time, although conversion to metric units became effective in 1979.

Some comments of the data quality are warranted. Production data derived from various sources always contains discrepancies. In the case of oil production, some operators provide pool production data while others provide sales data or a mixture of both. The oil purchaser reports the quantity of oil received at his terminal but actually pays for that quantity of oil reduced by a factor to account for the basic sediments and water content. Other than an annoyance factor, the differences in production data arising from these cause some problems in reserve estimates for marginal wells, especially if large quantities of water are being produced.

In the case of gas production data, discrepancies occur mainly because of the different pressure bases used in the gas purchase contracts. Also, if the operator and the purchaser meter the gas separately, there is invariably a difference in the measurements. In cases where one operator produces gas from a number of wells, either in the same pool or from separate pools, the gas production is occasionally comingled and it is difficult to determine the quantity of gas produced by each well or pool. Pressure data for gas wells is usually measured at the wellhead and must be used cautiously whenever fluid could be contained in the well bore.

Typing errors, misprints and misinterpretations of the type of data requested are common in Forms 108 and 109; it is obvious that some of the forms were completed by persons not familiar with oil and gas production.

If a pool has not been unitized or was unitized after a period of production, it becomes a challenge to assemble all of the production data submitted by the various operators, correlate it and combine it into the field cumulative. The problem is compounded when one operator sells all or part of his interest to another party. Willey Pool, Elgin County, was such a case. The published production data was broken down into its compo-

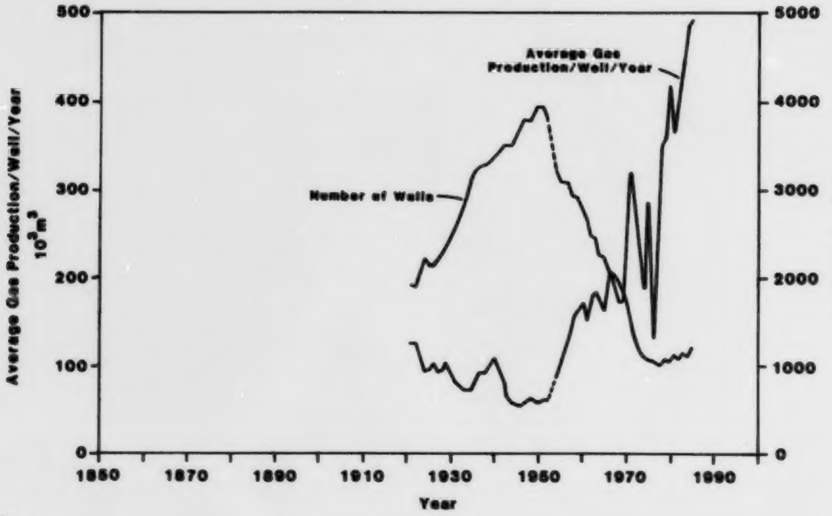


Figure 19. *Number of Producing Gas Wells and Average Gas Production/Well/Year 1921–1985.*

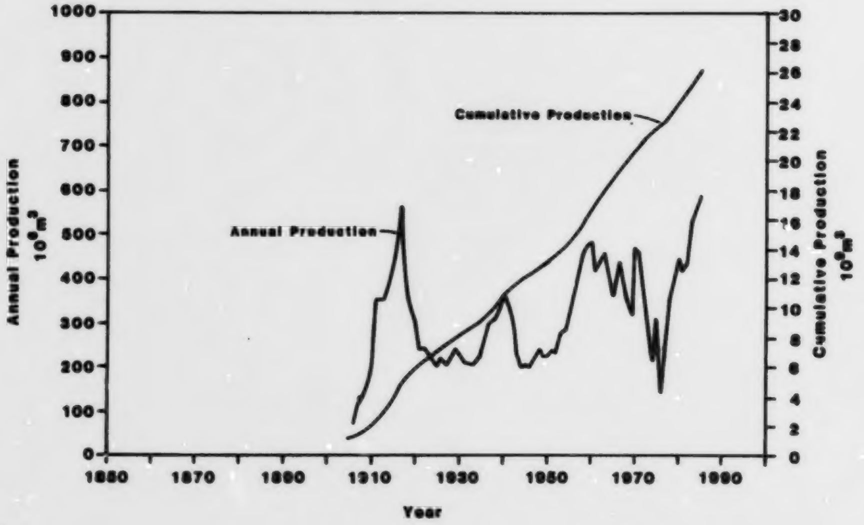


Figure 20. *Annual and Cumulative Gas Production 1906–1985.*

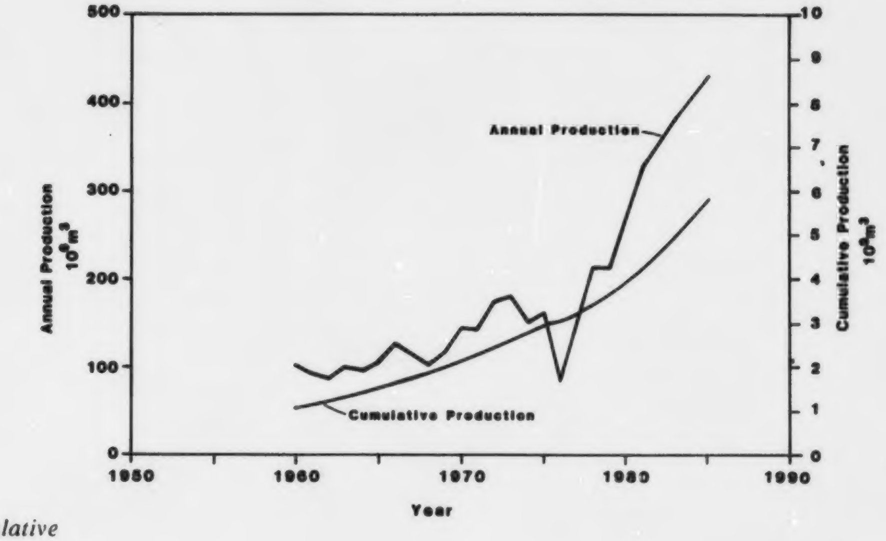


Figure 21. *Annual and Cumulative Gas Production from Lake Erie 1960–1985.*

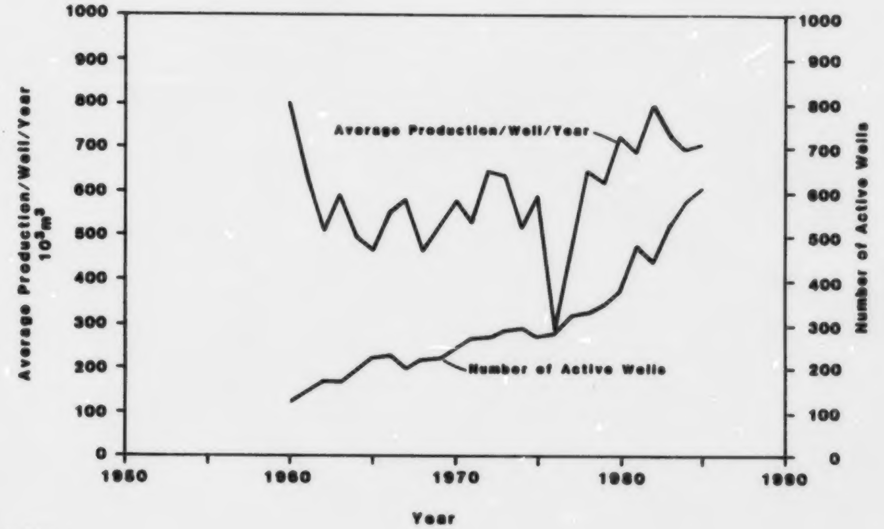


Figure 22. *Number of Producing Gas Wells and Average Gas Production/Well/Year, 1960–1985.*

nents and then reassembled to result in the appearance of production data for four smaller pools, separated from the main Willey Pool.

The oil industry originated in southwestern Ontario, and as a result, the production information for the older fields is not always available or reliable. Some of this production data is published in technical papers but the best data source for the older fields is the OMNR Annual Natural Gas and Petroleum Reports. Most of the data in these reports must be accepted at face value because of the absence of supporting documents. When two sources of published information conflict, judgement must be used in selecting the appropriate data to be used for reserve calculations."

VII. Natural Gas Storage

Fifteen of the eighteen designated gas storage pools were in operation in 1985. Total gas storage working capacity when delta pressured in 1985 was 4425.1 million cubic metres. The 'working capacity' of the storage pools is the reservoir volume available for injection and withdrawal of gas from the reservoir between the maximum delta pressure and the cushion pressure. In most cases the cushion pressure of storage reservoirs in Ontario is approximately 2413 kPa (reservoir pressure). Lambton County remained the centre for gas storage operations, with all but one of the active pools contained within its boundaries.

Eight storage wells were drilled in 1985. Union Gas Limited drilled three wells at each of the Payne and Dawn 156 storage pools, and Tecumseh Gas Storage completed two new storage wells in their Kimball–Colinville storage pool.

Gas storage statistics have been updated as of October 1, 1988 and are presented in Table 18. Storage capacities in the Payne, Bickford, and Terminus pools have increased since 1985 due to increased delta pressuring of these pools. The Moore 3–21–XII pool was designated as a gas storage pool by the Ontario Energy Board in 1988, bringing the total number of designated storage pools to nineteen. Total gas storage working capacity as of this date was 5090.8 million cubic metres.

TABLE 18: NATURAL GAS STORAGE.

Reservoir	Formation[1]	Status	Operator	Total Gas -In-Place When Delta Pressured $10^6 m^3$	Working Capacity When Delta Pressured $10^6 m^3$	Reservoir Pressure When Delta Pressured kPag	Original Reservoir Pressure kPag
Bentpath	G., A1	Active	Union	183.0	125.9	6916	5981
Bickford	G., A1	Active	Union	727.1	539.8	8201	6398
Corunna	G., A1	Active	Tecumseh	NA	138.8	7964	6502
Crowland	Whirlpool	Active	Consumers'	22.6	14.2	4330	3447
Dawn 156	G., A1	Active	Union	870.5	591.5	6757	6047
Dawn 167	G., A1	Active	Union	200.9	101.2	6592	6247
Dawn 47–49	G., A1	Active	Union	163.0	110.7	6757	5964
Dawn 59–85	G., A1,A2	Active	Union	260.5	138.5	6757	5964
Moore 3–21–XII	G, A1	Active	Tecumseh, Union	676.8	563.6	7585	6412
Ennskillen 28	G.	Inactive	Union	115.6	N.A.	7819	5288
Kimball-Colin.	G., A1	Active	Tecumseh	NA	1019.8	7964	6336
Payne	G., A1	Active	Union	833.7	635.6	8801	6047
Rosedale	G., A1	Active	Union	109.6	75.6	6957	6460
Seckerton	G., A1	Active	Tecumseh	NA	320.1	7964	6481
Sombra	G., A1	Inactive	Union	71.2	N.A.	7612	6467
Terminus	G., A1	Active	Union	400.1	277.5	7301	6109
Waubuno	G., A1	Active	Union	328.9	245.4	8301	6419
Wilkesport	G., A1	Active	Tecumseh	NA	192.6	7929	6378
Zone	A1, A2	Inactive	Union	146.1	N.A.	7129	4971

Total Active Working Capacity = 5090.8

1. G = Guelph, A1 = A-1 Carbonate, A2 = A-2 Carbonate
Statistics are accurate as of October 1, 1988.

VIII. Salt Cavern Storage

Table 19 provides a summary of salt cavern storage operations in southwestern Ontario. Statistics were compiled from a survey of the companies involved by the Petroleum Resources Section, and are up-to-date as of December 31, 1984.

One new storage well was drilled in 1985. Dome Amoco RO-6B Sarnia 8-B was drilled to a depth of 816.0 metres, reaching total depth within the A-1 Carbonate Unit. The well was located approximately 12 metres from existing cavern RP-6. The operator, Dome Petroleum Limited, indicated that well RO-6B will be connected to cavern RP-6 by washing a tunnel through the B-Salt Unit at 693.7 metres KB, and a Reda pump will be installed for removal of liquid gas product as required by the refinery.

TABLE 19: SALT CAVERN STORAGE.

Company Name	Cavern Number	Capacity (m^3)	Contents
Dome Petroleum Ltd. Sarnia	RP-1	19 237	NGL mix
	RP-2	20 350	NGL mix
	RP-3	28 618	NGL mix
	RP-4	58 825	NGL mix
	RP-5	32 751	NGL mix
	RP-6	50 240	NGL mix
	RP-7	63 595	NGL mix
	P-1	42 132	Spec LPG
	P-2	47 696	Spec LPG
	P-3	52 466	Spec LPG
	P-4	51 670	Spec LPG
	P-5	49 286	Spec LPG
	P-6	49 922	Spec LPG
	P-7	48 491	Spec LPG
	P-8	36 408	Spec LPG
	B-1	68 683	Spec LPG
	B-2	21 781	Spec LPG
	B-3	62 959	Spec LPG
	B-4	35 772	Spec LPG
Dow Chemical Canada	7	21 900	
	8	28 400	
	11	15 400	
	12	22 500	
	HC-1	42 340	Ethylene
	HC-2	9 197	Oil
	HC-3	58 673	Ethylene
	HC-4	44 243	Ethylene
	HC-5	36 155	Ethylene
	HC-6	31 239	Ethylene
	HC-7	27 275	Brine
	HC-8	19 188	Propylene
	HC-9	1 110	Brine
	HC-10	1 427	Brine
	HC-11	16	Brine
	HC-12	32	Brine
	41-42	396 438	Brine
	43-44	317 150	Brine
	45-46	158 575	Brine
	47-48	555 013	Brine
	49-50	81 032	Ethylene

TABLE 19: CONTINUED.

Company Name	Cavern Number	Capacity (m³)	Contents
Dow Chemical Canada	51-52	98 792	Ethylene
	53-54	269 578	Brine
	55	30 605	Brine
	56	68 187	Butane
	57-58	199 805	Brine
	59-60	412 296	Propane
	61	34 094	Brine
	62	36 472	Brine
	63-64	3 172	Brine
	65-66	12 686	Brine
	67-68	15 858	Brine
	69	3 172	Brine
	70	5 550	Brine
	71-7 2	5 550	Brine
	75		Brine
	76		Brine
	81		Brine
	82	1 427	Brine
Imperial Oil Ltd.	C-982	39 747	Propane
-Esso Petroleum	C-981	28 618	Slop
-Esso Chemical	C-985	20 668	Butane
	C-4040	33 387	Empty
	C-4043	41 337	n-Butane
	C-4044	34 977	Propane
	C-983	31 797	Fuel gas
	C-4041	21 463	Propylene
	C-4042	38 316	Ethylene
Petrosar	1	39 680	Ethylene
	2	42 320	Ethylene
	3	17 460	Fuel gas
	4	32 960	Propylene
	5	13 490	Propane
Polysar Ltd.	1	31 000	Propane
	2	17 000	Propane
	3	17 200	Propane
	4	16 700	Propane
	5	21 400	Isobutylene
	7	12 600	Propane
Shell Canada Ltd.	W1	33 390	Butane
	W2	19 080	Iso-Butane
	W3	15 900	Propane/Propylene
	W4	8 750	Propylene
Sun Oil Ltd.	3	22 894	Pentanes
	4	18 919	Propane
	5	25 438	Butane
	7	8 585	Butane/Butylene
	8	16 852	Butane
	9	36 090	Inactive
	10	16 217	Empty
	13	14 547	LPG
	14	16 025	Iso-Butane
	13	14 547	LPG

IX. References

Bailey Geological Services Ltd. and R.O. Cochrane, 1984a, Evaluation of the conventional and potential oil and gas reserves of the Ordovician of Ontario: Ontario Geological Survey Open File Report 5498, 77p.

Bailey Geological Services Ltd. and R.O. Cochrane, 1984b, Evaluation of the conventional and potential oil and gas reserves of the Cambrian of Ontario: Ontario Geological Survey Open File Report 5499, 72p.

Bailey Geological Services Ltd. and R.O. Cochrane, 1985, Evaluation of the conventional and potential oil and gas reserves of the Devonian of Ontario: Ontario Geological Survey Open File Report 5555, 178p.

Bailey Geological Services Ltd. and R.O. Cochrane, 1986, Evaluation of the conventional and potential oil and gas reserves of the Silurian sandstone reservoirs of Ontario: Ontario Geological Survey Open File Report 5578, 275p.

Carter, T.R., Parker, D.K., Campbell, G.R., and Trevail, R.A., 1986, Oil and gas developments in eastern Canada in 1985: American Association of Petroleum Geologists Bulletin, vol.70, p. 1243- 1254.

Hesselmans, C., and Trevail, R.A., 1985, Computer innovations in the Petroleum Resources Section (OPDS): paper presented at the 24th Annual Conference of the Ontario Petroleum Institute.

Holroyd, M.T., and Trevail, R.A., 1985, OPDS: The Ontario Petroleum Data System; Expanded Abstracts with Biographies, 55th Annual International Meeting of the Society of Exploration Geophysicists, p. 85-86.

Singhroy, V.H., and Trevail, R.A., 1985, The use of remote sensing technology in the search for oil and gas in southern Ontario; paper presented at the 24th Annual Conference of the Ontario Petroleum Institute.

Trevail, R.A., 1985, Tectonic and diagenetic controls on the development of Middle Ordovician carbonate reservoirs, Essex County, Ontario; paper presented at the 24th Annual Conference of the Ontario Petroleum Institute.

Trevail, R.A., Feenstra, B.H., Pakvis, P., and Sando, J., 1986, Southwestern Regional Geologist area, Southwestern Region, in Report of Activities 1985 Regional and Resident Geologists; Ontario Geological Survey, Miscellaneous Paper 128, p. 323-340.

Trevail, R.A., Pakvis, P.A., and Brown, S., in press, Oil and gas exploration, drilling, and production summary, 1984; Ontario Ministry of Natural Resources, Oil and Gas Paper 7.

Appendix I.
Licences Issued In 1985

TABLE I-1: PERSONS LICENCED TO LEASE OIL OR GAS RIGHTS, 1985.

Licencee	City/Province	Licence #
398311 Ontario Limited	CORUNNA, Ontario	065
A.I.S. Resources Limited	MONTREAL, Quebec	066
Atlas Oil & Gas Limited	SCARBOROUGH, Ontario	050
Avonry Gas Company Limited	PETROLIA, Ontario	172
Bailey Geological Services Ltd.	ST. MARY'S, Ontario	067
Barnes, Joyce	OIL SPRINGS, Ontario	139
Barnes, Kenneth	OIL SPRINGS, Ontario	138
Baxley, Wilbur F.	RODNEY, Ontario	001
Bayview Explorations Limited	ST. WILLIAMS, Ontario	069
Beach, P.J.	ST. CATHERINES, Ontario	145
Bear Creek Resources Limited	TORONTO, Ontario	070
Beech Lane Explorations	ST. WILLIAMS, Ontario	002
Blackwell Petroleum Serices Ltd.	LONDON, Ontario	071
Bliss, Matthew	LONDON, Ontario	161
Bluewater Oil & Gas Limited	CALGARY, Alberta	072
Bogaert, H.P.	BRIGDEN, Ontario	003
Bogaert, Michael P.	BRIGDEN, Ontario	004
Bonhomme, J.C.	TORONTO, Ontario	006
Bonus Petroleum Corp.	CALGARY, Ontario	159
Bowes, Paul	LONDON, Ontario	016
Boyce, Paul F.	LONDON, Ontario	017
Boychuk, Leonard J.	CHATHAM, Ontario	077
Brett, Douglas J.	LAMBETH, Ontario	010
Burgess, Bryan D.	CHATHAM, Ontario	123
Burt, Ross	ORANGEVILLE, Ontario	008
C.D. Fraser Land Services Limited	LAMBETH, Ontario	149
C.G. Oil Exploration Inc.	MT. BRYDGES, Ontario	154
Cairnlins Petroleum Services	LONDON, Ontario	073
Cambrian Disposals Limited	CHATHAM, Ontario	009
Camel Oil & Gas Limited	CALGARY, Alberta	074
Cameron Petroleums Limited	LAMBETH, Ontario	075
Campbell, Keith	MERLIN, Ontario	011
Canadian Occidental Petroleum Ltd.	CALGARY, Alberta	076
Carnegie Enterprises	CHATHAM, Ontario	012
Chatham Engineering Ltd.	HAMILTON, Ontario	151
Chatham, W.T.	HAMILTON, Ontario	131
Chivers, John S.	LONDON, Ontario	063
Chupa, Terry	PORT COLBORNE, Ontario	164
Clarysse, Roger	SIMCOE, Ontario	013
Coggans, Christopher	LONDON, Ontario	165
Coldicott, W.J.	SCARBOROUGH, Ontario	051
Colonial Petroleums Limited	LONDON, Ontario	078
Consolidated West Petroleum Limited	PORT COLBORNE, Ontario	110
Corden, Bruce P. Eng.	ST. CLAIR, Michigan	137
Craven Oil Company Limited	CHATHAM, Ontario	079
David R. Thompson Energy Consulting Ltd.	DON MILLS, Ontario	160
Dawn Petroleums	BRIGDEN, Ontario	150
Day, R.M.	CHATHAM, Ontario	124
Dekker, Clarence	CHATHAM, Ontario	125
Denison Mines Limited	CALGARY, Alberta	081
Devran Petroleums Limited	LONDON, Ontario	082
DiBono, Mary	TORONTO, Ontario	168
Diamond Shamrock Exploration of Canada, Ltd.	6 Ave. S.W.,CALGARY, Alberta	143

TABLE I-1: CONTINUED.

Licencee	City/Province	Licence #
Dome Petroleum Limited	CALGARY, Alberta	014
Domego Resources Ltd.	TORONTO, Ontario	174
Dustan, J.	SCARBOROUGH, Ontario	052
Eamer, Bruce A.	CALGARY, Alberta	171
Easton, Douglas	EXETER, Ontario	015
Elexco Limited	LONDON, Ontario	018
Emerson, Neill W.	DUNNVILLE, Ontario	024
Esso Resources Canada Ltd.	BLENHEIM, Ontario	084
Evon, Christine	MT. BRYDGES, Ontario	158
Fast Petroleum	NIAGARA-ON-THE-LAKE, Ontario	025
Filipetti, Terry M.	LONDON, Ontario	019
Fitzgerald, Norman D.	ABILENE, Texas, U.S.A.	085
Ford, Harvey	SARNIA, Ontario	153
Fox, E.S.	WELLAND, Ontario	146
Francisco Petroleum Enterprises Inc.	CHATHAM, Ontario	086
Fraser, C. Douglas	LAMBETH, Ontario	026
French, Bradley W.	CHATHAM, Ontario	126
Furgiuele, W.	SCARBOROUGH, Ontario	053
Fyck, Rick	LONDON, Ontario	176
Gaiswinkler Enterprises Ltd.	CHATHAM, Ontario	087
Gaiswinkler, L.F.	CHATHAM, Ontario	088
Glenfred Gas Wells Limited	JARVIS, Ontario	090
Gogama Resources Inc.	TORONTO, Ontario	157
Greenside, Patrick	LONDON, Ontario	167
Grimes, Barry	LONDON, Ontario	020
Grimes, Rick	LONDON, Ontario	163
H. Brett & Associates Limited	LAMBETH, Ontario	007
Hadley Resources Limited	LONDON, Ontario	027
Haldimand Gas & Oil Wells Ltd.	CAYUGA, Ontario	091
Hall, Leslie	BRIGDEN, Ontario	028
Hannam, Wayne R.S.	LONDON, Ontario	108
Herlufsen, Bent E.	LONDON, Ontario	021
Herman, L.T.	STREETSVILLE, Ontario	093
Inwood, R.	SCARBOROUGH, Ontario	054
J.E. English General Drilling & Well Servicing Ltd.	PORT LAMBTON, Ontario	083
JMCD Energy Explorations Ltd.	BRANTFORD, Ontario	095
Jeffery, S.J.	LONDON, Ontario	029
Johnson, R.D.	LONDON, Ontario	030
Jonckheere, George	LANGTON, Ontario	092
K.E. Crawford Limited	CHATHAM, Ontario	080
Kelly, David A.	BRAMPTON, Ontario	096
Kenartha Oil & Gas Co. Ltd.	MARKHAM, Ontario	098
Kenetek Explorations Inc.	PAIN COURT, Ontario	144
Kingdon, Ron	THEDFORD, Ontario	147
Klenk, William C. III	MANITOWANING, Ontario	152
Kovacs, John L.	LANGTON, Ontario	148
Kriter, Robert E.	LAMBETH, Ontario	031
Lancaster, Joe	SCARBOROUGH, Ontario	055
Langstaff, R.	SCARBOROUGH, Ontario	056
Ledgley, David D.	LONDON, Ontario	032
MPB Oil Limited	BRIGDON, Ontario	005
Malo, J.	CHATHAM, Ontario	127
Marvan II	THAMESVILLE, Ontario	177
McCarthy, Marshall	CALGARY, Alberta	170
McKenzie, D. Ian	WATERLOO, Ontario	033
McKenzie, D.F.	SARNIA, Ontario	034
McKenzie, Dr. Garry D.	COLUMBUS, Ohio, U.S.A.	035
McLachlin, D.A.	WALLACEBURG, Ontario	036
McVittie, J.N.	GEORGETOWN, Ontario	037
Michigan Oil Company	JACKSON, Michigan	101
Mickle, William Paul	LONDON, Ontario	155

TABLE I-1: CONTINUED.

Licencee	City/Province	Licence #
Mid Eastern Oil & Gas Limited	LONDON, Ontario	102
Milton Resources Limited	LONDON, Ontario	103
Mitchell Energy Corporation	PORT DOVER, Ontario	094
Mitchell, Philip	LONDON, Ontario	022
Moore, Bert	MARKHAM, Ontario	099
Morrison, Robert J.	LANGTON, Ontario	104
Murphy Oil Co. Ltd.	CALGARY, Alberta	105
Nomeco Oil & Gas Canada, Inc.	JACKSON, Michigan	156
Newport, Lorne T.	WARDSVILLE, Ontario	106
Noble, William G.	OIL CITY, Ontario	107
Norman, J.L.	LONDON, Ontario	023
Opekar, Richard	TORONTO, Ontario	169
Oxford-Elgin Gas & Oil	SPRINGFIELD, Ontario	038
PanCanadian Petroleums Ltd.	CALGARY, Alberta	039
Pembina Exploration Co. Ltd.	PORT COLBORNE, Ontario	109
Petro-Canada Inc.	CALGARY, Alberta	040
Pinetree Exploration Limited	CHATHAM, Ontario	116
Place Gas & Oil Co. Ltd.	TORONTO, Ontario	111
Pronto Resources Limited	PETROLIA, Ontario	142
Putman, Patricia S.	SARNIA, Ontario	112
R.G. Bryant Energy Associates Inc.	LONDON, Ontario	141
Raen Petroleum Corp.	LONDON, Ontario	136
Ram Petroleums Limited	TORONTO, Ontario	113
Rawlings Drilling Co. Ltd.	CHATHAM, Ontario	115
Rawlings, F.S.	CHATHAM, Ontario	114
Rayment, Oliver B.	CHATHAM, Ontario	041
Realoil Enterprises Limited	CHATHAM, Ontario	089
Richards, G.W.	LONDON, Ontario	042
Rife, K.C.	CAMBRIDGE, Ontario	135
Rowe, J.M.	LONDON, Ontario	043
Rowe, Peter	LONDON, Ontario	044
Saul, Francis Kl.	LANGTON, Ontario	175
Scollard, Robert	LONDON, Ontario	166
Seis-Ex Geophysical Limited	S.W. CALGARY, Alberta	100
Shackleton, Alvin G.	CHATHAM, Ontario	128
Shawnee Petroleums Limited	TORONTO, Ontario	117
Shea, Don	WATFORD, Ontario	045
Shell Canada Resources Limited	CALGARY, Alberta	046
Shirley, Robert D.	ORANGEVILLE, Ontario	133
Sidasa Petroleums Limited	KITCHENER, Ontario	048
Spelman Prentice	CASPER, Wyoming, U.S.A.	118
Springs Drilling Limited	OIL SPRINGS, Ontario	119
Stanley Reef Resources Limited	TORONTO, Ontario	047
Sunburst Oil Company	LAMBETH, Ontario	120
Talcorp Services Limited	TORONTO, Ontario	121
Tecumseh Gas Storage Limited	SCARBOROUGH, Ontario	057
The Consumers' Gas Co. Ltd.	SCARBOROUGH, Ontario	049
Thibodeau, Leo J.	WINDSOR, Ontario	060
Thomas, Douglas	PORT ELGIN, Ontario	061
Tkach, Walter J.	SCARBOROUGH, Ontario	058
Traynor, Stephen	LONDON, Ontario	162
Tundra Exploration Limited	CALGARY, Alberta	062
Union Gas Limited	CHATHAM, Ontario	122
W.T. Chatham Associates Ltd.	LONDON, Ontario	130
Welland Port Gas Company	DUNNVILLE, Ontario	132
Wilson, Alexander D.	LONDON, Ontario	134
Wilton B.	SCARBOROUGH, Ontario	059
Wilton, Harold R.	BLENHEIM, Ontario	064
Woodcock, P.	CHATHAM, Ontario	129
Zilar, Dean	TORONTO, Ontario	178

TABLE I-2: PERSONS LICENCED TO CONDUCT GEOPHYSICAL OR GEOCHEMICAL EXPLORATION FOR OIL OR GAS, 1985.

Licencee	City/Province	Licence #
B.G. Environmental Surveys Limited	REXDALE, Ontario	044
B.P. Canada Inc.	CALGARY, Alberta	042
Bedford Petroleums Limited	CALGARY, Alberta	001
Blackwell Petroleum Services Ltd.	LONDON, Ontario	005
Bluewater Oil & Gas Limited	CALGARY, Alberta	006
Cairnlins Petroleum Services	LONDON, Ontario	008
Canadian Occidental Petroleum Ltd.	CALGARY, Alberta	009
Cangeo Limited	OIL SPRINGS, Ontario	004
Chatham Engineering Ltd.	HAMILTON, Ontario	034
Chatham W.T.	HAMILTON, Ontario	029
Chemical Projects Limited	REXDALE, Ontario	030
Consolidated West Petroleum Limited	PORT COLBORNE, Ontario	022
Denison Mines Limited	CALGARY, Alberta	010
Devran Petroleum Limited	LONDON, Ontario	011
Diamond Shamrock Exploration of Canada, Ltd.	6 Ave.S.W.,CALGARY, Alberta	032
Dome Petroleum Limited	CALGARY, Alberta	003
E.P. Rowe Oil Limited	LONDON, Ontario	012
Ecoseis Exploration Ltd.	CALGARY, Alberta	046
Elexco Limited	LONDON, Ontario	013
Enertec Geophysical Services Ltd.	CALGARY, Ontario	041
Explorer Petroleum Corp.	CALGARY, Ontario	039
Fitzgerald, Norman D.	ABILENE, Texas, U.S.A.	014
GraviMetrics Inc.	TULSA, Oklahoma, U.S.A.	007
H. Brett & Associates Limited	LAMBETH, Ontario	043
JMCD Energy Exploration Ltd.	BRANTFORD, Ontario	016
Kelly,David A.	BRAMPTON, Ontario	017
Kenetek Explorations Inc.	PAIN COURT, Ontario	033
Klenk, William C. III	MANITOWANING, Ontario	035
Mid Eastern Oil & Gas Limited	LONDON, Ontario	019
Milton Resources Limited	LONDON, Ontario	020
Mitchell Energy Corporation	PORT DOVER, Ontario	015
NOMECO Oil & Gas Canda, Inc.	JACKSON, Michigan	037
Paladin Petroleum Corporation	TORONTO, Ontario	031
Pembina Exploration Co. Ltd.	PORT COLBORNE, Ontario	021
Petro-Canada Inc.	CALGARY, Alberta	036
Ram Petroleums Limited	TORONTO, Ontario	023
Seis-Ex Geophysical Limited	S.W., CALGARY, Alberta	018
Spelman Prentice	CASPER, Wyoming, U.S.A.	024
Springs Drilling Limited	OIL SPRINGS, Ontario	025
The Consumers'Gas Co. Ltd.	SCARBOROUGH, Ontario	026
Union Gas Limited	CHATHAM, Ontario	027
W.T. Chatham Associates Ltd.	LONDON, Ontario	028

TABLE I-3: OWNERS OF LICENCED MACHINES FOR BORING, DRILLING OR PLUGGING WELLS, 1985.

Licencee	City/Province	Licence #
B&S Rotary Drilling Ltd.	CORUNNA, Ontario	006
Bear Creek Resources Limited	TORONTO, Ontario	007
Bender, Harold E.	PETROLIA, Ontario	075
Bothwell Drilling & Servicing Ltd.	LAMBETH, Ontario	008
Bothwell Drilling & Servicing Ltd.	LAMBETH, Ontario	009
Bothwell Drilling & Servicing Ltd.	LAMBETH, Ontario	074
Bradley Bros. Limited	TIMMINS, Ontario	079
C.G. Oil Exploration Inc.	MT. BRYDGES, Ontario	063
Charles G. Stevenson Drilling Ltd.	DRESDEN, Ontario	064
Charles G. Stevenson Drilling Ltd.	DRESDEN, Ontario	082
Charles Shaw Drilling Ltd.	FLORENCE, Ontario	010
Charles Shaw Drilling Ltd.	FLORENCE, Ontario	011
Charles Shaw Drilling Ltd.	FLORENCE, Ontario	012
Charles Shaw Drilling Ltd.	FLORENCE, Ontario	013
Circle A Drilling Inc.	DRESDEN, Ontario	058
Circle A Drilling Inc.	DRESDEN, Ontario	059
Corunna Drilling Limited	CORUNNA, Ontario	063
D.S.I.L. Drilling Inc.	SCARBOROUGH, Ontario	014
Davidson Well Drilling Limited	WINGHAM, Ontario	015
Dawn Petroleums	BRIGDEN, Ontario	061
Degrow, Leland M.	YORK, Ontario	016
Diamond Shamrock Exploration of Canada Ltd.	6 Ave. S.W., CALGARY, Alta.	056
Durl Hopper Limited	SEAFORTH, Ontario	017
Durl Hopper Limited	SEAFORTH, Ontario	018
Eagle Drilling Services Inc.	DRESDEN, Ontario	019
Elgin Mitchell & Sons	SIMCOE, Ontario	067
Elgin Mitchell & Sons	SIMCOE, Ontario	068
Elgin Mitchell & Sons	SIMCOE, Ontario	069
Elgin Mitchell & Sons	SIMCOE, Ontario	070
Faulkner Well Drilling Co. Ltd.	PETERBOROUGH, Ontario	021
Ford, Harvey	SARNIA, Ontario	020
Instant Water Wells Ltd.	WILLIAMSBURG, Ontario	022
International Water Supply Ltd.	BARRIE, Ontario	023
Isidore Beland Inc.	ST. EUSTACHE, Quebec	076
J.E. English General Drilling & Well Servicing Ltd.	PORT LAMBTON, Ontario	024
James Newport Drilling Limited	OIL SPRINGS, Ontario	025
James Newport Drilling Limited	OIL SPRINGS, Ontario	026
Kenneth J. Girard Drilling	WARDSVILLE, Ontario	062
Kingdon, Ron	THEDFORD, Ontario	060
Longyear Canada Inc.	NORTH BAY, Ontario	027
Longyear Canada Inc.	NORTH BAY, Ontario	028
Longyear Canada Incorporated	CONCORD, Ontario	029
Marsh, Tom	BOTHWELL, Ontario	057
McLaughlin Drilling Limited	CORUNNA, Ontario	005
Montgomery Bros.	SELKIRK, Ontario	032
Murray Rose Drilling Inc.	PORT ROWAN, Ontario	033
Murray Rose Drilling Inc.	PORT ROWAN, Ontario	034
Murray Rose Drilling Inc.	PORT ROWAN, Ontario	035
Newport, Lorne T.	WARDSVILLE, Ontario	030
Newport, Lorne T.	WARDSVILLE, Ontario	031
Pembina Exploration Co. Ltd.	PORT COLBORNE, Ontario	036
Pembina Exploration Co. Ltd.	PORT COLBORNE, Ontario	037
Pembina Resources Limited	PORT COLBORNE, Ontario	071
Pembina Resources Limited	PORT COLBORNE, Ontario	072
Place Gas & Oil Co. Ltd.	TORONTO, Ontario	038
Place Gas & Oil Co. Ltd.	TORONTO, Ontario	039

TABLE I-3: CONTINUED.

Licencee	City/Province	Licence #
Rawlings Drilling Co. Ltd.	CHATHAM, Ontario	040
Rawlings Drilling Co. Ltd.	CHATHAM, Ontario	041
Rawlings Drilling Co. Ltd.	CHATHAM, Ontario	042
Rawlings Drilling Co. Ltd.	CHATHAM, Ontario	043
Rawlings Drilling Co. Ltd.	CHATHAM, Ontario	044
Red Rig Oil Field Servicing Ltd.	SOMBRA, Ontario	081
Ron Smith Well Drilling Ltd.	DENFIELD, Ontario	046
Ron Smith Well Drilling Ltd.	DENFIELD, Ontario	047
Rose, Charles	PORT ROWAN, Ontario	048
S.J. Atkinson & Son Drilling	PETROLIA, Ontario	049
Stewart Well Drilling	JARVIS, Ontario	077
Underwater Gas Developers Ltd.	SHERKSTON, Ontario	049
Underwater Gas Developers Ltd.	SHERKSTON, Ontario	050
Underwater Gas Developers Ltd.	SHERKSTON, Ontario	051
Underwater Gas Developers Ltd.	SHERKSTON, Ontario	052
Underwater Gas Developers Ltd.	SHERKSTON, Ontario	080
Union Gas Limited	CHATHAM, Ontario	055
Wellington Newport & Sons Ltd.	WARDSVILLE, Ontario	053
Wellington Newport & Sons Ltd.	WARDSVILLE, Ontario	054

TABLE I-4: PERSONS LICENCED TO PRODUCE OIL AND GAS, 1985.

Licencee	City/Province	Licence #
398311 Ontario Limited	CORUNNA, Ontario	069
490960 Ontario Limited	SARNIA, Ontario	001
625138 Ontario Limited	SARNIA, ONTARIO	151
A.I.S. Resources Limited	MONTREAL, Quebec	070
Ameracrude International Inc.	TORONTO, Ontario	002
Annett, Robert	BOTHWELL, Ontario	118
Ashburn, Richard D.	BOTHWELL, Ontario	003
Avonry Gas Company Limited	PETROLIA, Ontario	143
Ayrheart, Ellwood J.	OIL SPRINGS, Ontario	004
Ayrheart, Orval & Irene	PETROLIA, Ontario	005
Ayrheart, Roy	PETROLIA, Ontario	006
Bailey Geological Services Ltd.	ST. MARY'S, Ontario	071
Baker, J.W.	BRIGDEN, Ontario	140
Baldwin, David L.	SARNIA, Ontario	007
Barnes, Lonnie	OIL SPRINGS, Ontario	008
Bayview Explorations Limited	ST. WILLIAMS, Ontario	072
Bear Creek Resources Limited	TORONTO, Ontario	073
Bedford Petroleums Limited	CALGARY, Alberta	074
Beech Lane Explorations	ST. WILLIAMS, Ontario	134
Bender, Harold E.	PETROLIA, Ontario	009
Blackwell Petroleum Services Ltd.	LONDON, Ontario	075
Bluewater Oil & Gas Limited	CALGARY, Alberta	076
Bonus Petroleum Corp.	CALGARY, Alberta	139
Bradley, Murray	PETROLIA, Ontario	010
Bradley, Richard	PETROLIA, Ontario	142
Brand, Walt	PETROLIA, Ontario	011
Brookwood Oils Inc.	LONDON, Ontario	012
Burtnyk, Roger	BOTHWELL, Ontario	013
Byers, I.	OIL SPRINGS, Ontario	124
Camel Oil & Gas Limited	CALGARY, Alberta	077
Cameron Petroleums Limited	LAMBETH, Ontario	078
Canadian Occidental Petroleum Ltd.	CALGARY, Ontario	079
Cartier Resources Inc.	TORONTO, Ontario	014
Charles Fairbank Oil Prop.	PETROLIA, Ontario	015
Chatham Engineering Ltd.	HAMILTON, Ontario	132
Chatham, W.T.	HAMILTON, Ontario	115
Colonial Petroleums Limited	LONDON, Ontario	080
Comfort, N.E.	CHATHAM, Ontario	016
Consolidated West Petroleum Limited	PORT COLBORNE, Ontario	104
Corden, Bruce P.Eng.	ST. CLAIR, Michigan	120
Craven Oil Company Limited	CHATHAM, Ontario	081
Crich Holdings and Buildings Ltd.	LONDON, Ontario	150
D.W. Matheson Electric Ltd.	OIL SPRINGS, Ontario	017
Dawn Petroleums	BRIGDEN, Ontario	131
Den-Mar Brines Limited	BOTHWELL, Ontario	018
Denison Mines Limited	CALGARY, Alberta	141
Devran Petroleums Limited	LONDON, Ontario	083
Diamond Shamrock Exploration of Canada, Ltd.	6 AVE. S.W. CALGARY, Alberta	127
Dome Petroleum Ltd.	SARNIA, Ontario	019
Domego Resources Ltd.	TORONTO, Ontario	146
Donald, Albert B. & Mothersboug, H.	OIL SPRINGS, Ontario	020
Dow Chemical Canada Inc.	SARNIA, Ontario	021
Dutton Resources Limited	TORONTO, Ontario	022
E.P. Rowe Oil Limited	LONDON, Ontario	023
Edward, R.A.	PETROLIA, Ontario	024
Esso Resources Canada Ltd.	BLENHEIM, Ontario	084
Explorer Petroleum Corp.	CALGARY, Alberta	137

TABLE I-4: PERSONS LICENCED TO PRODUCE OIL AND GAS, 1985.

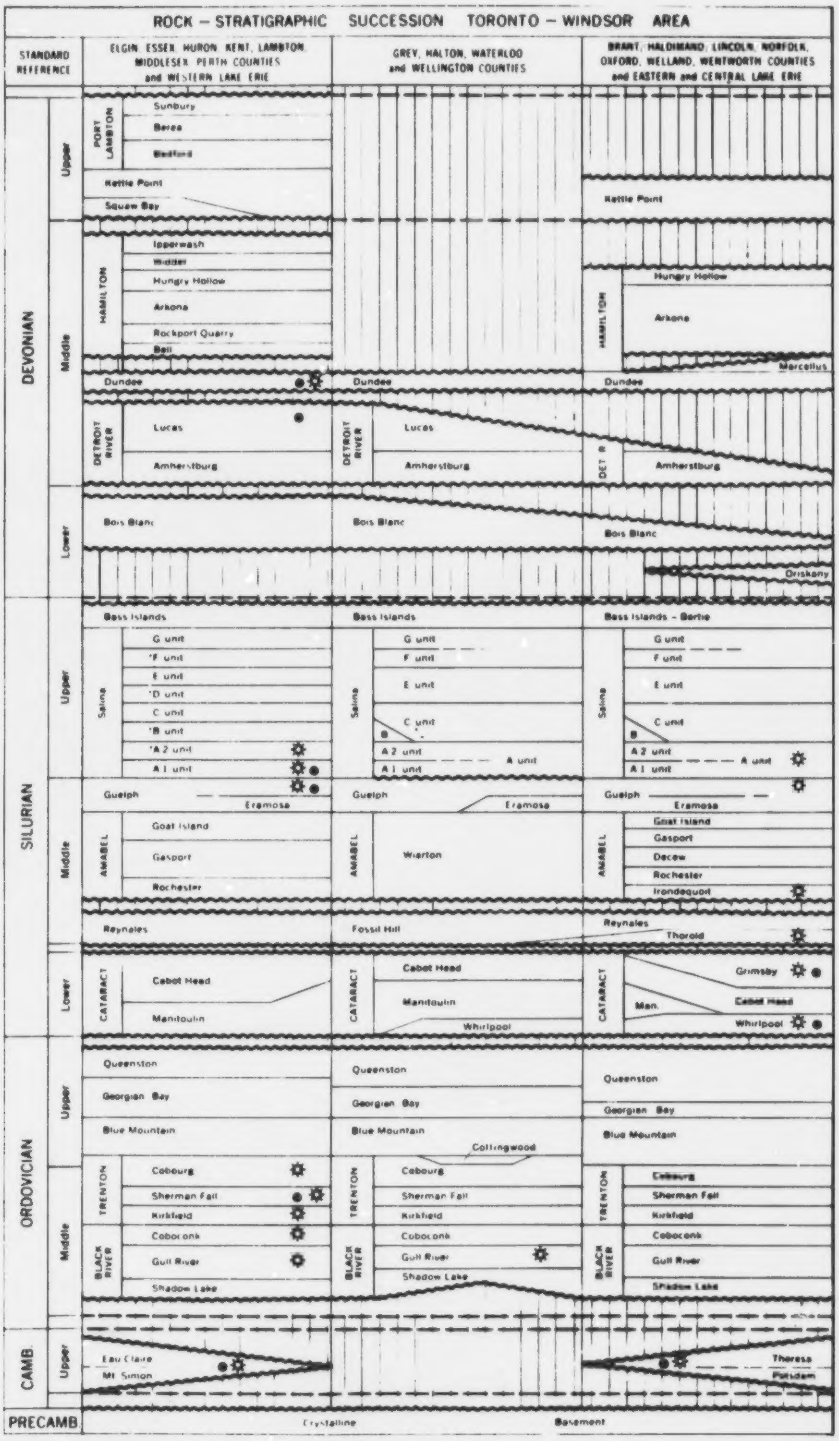
Licencee	City/Province	Licence #
F & M Resources Ltd.	LANGTON, Ontario	147
Farrants, Robert A.	THAMESVILLE, Ontario	122
Fisherville Gas Limited	SIMCOE, Ontario	025
Fitzgerald, Norman D.	ABILENE, Texas, U.S.A.	085
Forbes Resources Inc.	LONDON, Ontario	026
Fox, E.S.	WELLAND, Ontario	129
Francisco Petroleum Enterprises Inc.	CHATHAM, Ontario	086
Freeman, Donald G.	PORT ROWAN, Ontario	027
Gaiswinkler Enterprises Ltd.	CHATHAM, Ontario	087
George Hyslop Limited	OHSWEKEN, Ontario	029
Glencoe Waterflood Inc.	GLENCOE, Ontario	028
Glenerd Limited	SIMCOE, Ontario	135
Glenfred Gas Wells Limited	JARVIS, Ontario	089
Gogama Resources Inc.	TORONTO, Ontario	136
Golden Hubris Inc.	TORONTO, Ontario	030
H. Brett & Associates Limited	LAMBETH, Ontario	031
Haldimand Gas & Oil Wells Ltd.	CAYUGA, Ontario	090
Hemlock Explorations Limited	LANGTON, Ontario	091
Herman, L.T.	STREETSVILLE, Ontario	092
Intrex Corporation	LAMBETH, Ontario	145
J.W.K. Administration& Associates Ltd.	BRANTFORD, Ontario	032
JMCD Energy Exploration Ltd.	BRANTFORD, Ontario	094
Jourika Gas	TILLSONBURG, Ontario	033
K.E. Crawford Limited	CHATHAM, Ontario	082
Kenartha Oil & Gas Co. Ltd.	MARKHAM, Ontario	095
Kingdon, Ron	THEDFORD, Ontario	130
Klenk, William C. III	MANITOWANING, Ontario	133
Kodyen, L.M.	DRESDEN, Ontario	034
LMG Oils Limited	LONDON, Ontario	035
Lambton Area Industries Ltd.	PETROLIA, Ontario	036
Lincoln Natural Gas Ltd.	DUNNVILLE, Ontario	037
Lyons, Wilson & Baines Oil Producers	PETROLIA, Ontario	119
Marr, Harvey	WAINFLEET, Ontario	038
Marvan II	THAMESVILLE, Ontario	148
Metalore Resources Limited	SIMCOE, Ontario	039
Michigan Oil Company	JACKSON, Michigan	096
Milton Resources Limited	LONDON, Ontario	097
Mitchell Energy corporation	PORT DOVER, Ontario	093
Mitchell, G.	OIL SPRINGS, Ontario	040
Morningstar Oil Producers Ltd.	OIL SPRINGS, Ontario	042
Morningstar, Lorna	OIL SPRINGS, Ontario	041
Morrison, Doris	LANGTON, Ontario	098
Morrison, Robert J.	LANGTON, Ontario	100
Murphy Oil Co. Ltd.	CALGARY, Alberta	101
Nablis Enterprises Limited	WHEATLEY, Ontario	149
Natural Resources Gas Limited	LONDON, Ontario	043
Nith River Petroleums Ltd.	CAMBRIDGE, Ontario	044
Noble, William G.	OIL CITY, Ontario	102
Ort, C.H.	NIAGARA FALLS, Ontario	045
Paladin Petroleum Corporation	TORONO, Ontario	125
Patterson Oil Development	ERIEAU, Ontario	046
Pegg, Leonard A.	MORPETH, Ontario	047
Pembina Exploration Co. Ltd.	PORT COLBORNE, Ontario	103
Petroleum Royalties Limited	CALGARY, Albeta	123
Petrolia Discovery Foundation Inc.	PETROLIA, Ontario	048

TABLE 1-4: PERSONS LICENCED TO PRODUCE OIL AND GAS, 1985.

Licencee	City/Province	Licence #
Place Gas & Oil Co. Ltd.	TORONTO, Ontario	105
Pope, William	BOTHWELL, Ontario	049
Proto Resources Limited	PETROLIA, Ontario	138
Putman, Patricia s.	SARNIA, Ontario	106
R.G. Bryant Energy Associates Inc.	LONDON, Ontario	126
Raen Petroleum corp.	LONDON, Ontario	117
Ram Petroleums Limited	TORONTO, Ontario	107
Rayrock Resources Limited	CHATHAM, Ontario	051
Realoil Enterprises Limited	CHATHAM, Ontario	088
Revallee Gas & Oil Company	WINDSOR, Ontario	052
Riddell Hanna Exploration Ltd.	DEARBORN HEIGHTS, Michigan	053
Roskoil Company	OIL SPRINGS, Ontario	054
Roth and Roth Limited	BOTHWELL, Ontario	144
Ruch, K.	STEVENSVILLE, Ontario	055
S&W Oil Company	WATFORD, Ontario	056
Sasko Oil and Gas Limited	DUTTON, Ontario	057
Shawnee Petroleums Limited	TORONTO, Ontario	108
Simon, B.	STEVENSVILLE, Ontario	058
Sitler, Delbert	WARDSVILLE, Ontario	059
South-West Petroleum Co.	WINDSOR, Ontario	060
Springs Drilling Limited	OIL SPRINGS, Ontario	109
Stevenson, Dorothy	PETROLIA, Ontario	061
Sunburst Oil Company	LAMBETH, Ontario	110
Sylab Incorporated	PETROLIA, Ontario	128
Talcorp Services Limited	TORONTO, Ontario	111
Thames Resources Limited	TORONTO, Ontario	062
The Consumers' Gas Co. Ltd.	SCARBOROUGH, Ontario	112
Tipperary Resources Limited	TORONTO, Ontario	063
Union Gas Limited	CHATHAM, Ontario	113
Venison Creek Resources Limited	CALGARY, Alberta	064
Vye, Frank	BRIGDEN, Ontario	065
W.T. Chatham Associates Ltd.	LONDON, Ontario	114
Wellandport Gas Company	DUNNVILLE, Ontario	116
Willoyd Limited	STEVENSVILLE, Ontario	121
Woods, Lloyd	OIL SPRINGS, Ontario	066
York Producing Co. Ltd.	BOLIVAR, New York, U.S.A.	067
Zdriluk, Alberta M.	WATERFORD, Ontario	068

Appendix II. Composite Stratigraphic Column

Figure 23. *Composite Stratigraphic Column.*


ROCK – STRATIGRAPHIC SUCCESSION TORONTO – WINDSOR AREA
STANDARD REFERENCE
ELGIN, ESSEX, HURON, KENT, LAMBTON, MIDDLESEX, PERTH COUNTIES and WESTERN LAKE ERIE
GREY, HALTON, WATERLOO and WELLINGTON COUNTIES
BRANT, HALDIMAND, LINCOLN, NORFOLK, OXFORD, WELLAND, WENTWORTH COUNTIES and EASTERN and CENTRAL LAKE ERIE
DEVONIAN
Upper
PORT LAMBTON
Sunbury
Berea
Bedford
Kettle Point
Squaw Bay
Kettle Point
Middle
HAMILTON
Ipperwash
Widder
Hungry Hollow
Arkona
Rockport Quarry
Bell
HAMILTON
Hungry Hollow
Arkona
Marcellus
Dundee
Dundee
Dundee
DETROIT RIVER
Lucas
Amherstburg
DETROIT RIVER
Lucas
Amherstburg
DET R
Amherstburg
Lower
Bois Blanc
Bois Blanc
Bois Blanc
Oriskany
SILURIAN
Upper
Bass Islands
Bass Islands
Bass Islands - Bertie
Salina
G unit
'F unit
E unit
'D unit
C unit
'B unit
'A 2 unit
A 1 unit
Salina
G unit
F unit
E unit
C unit
B
A 2 unit
A 1 unit
A unit
Salina
G unit
F unit
E unit
C unit
B
A 2 unit
A 1 unit
A unit
Middle
Guelph
Eramosa
Guelph
Eramosa
Guelph
Eramosa
AMABEL
Goat Island
Gasport
Rochester
AMABEL
Wiarton
AMABEL
Goat Island
Gasport
Decew
Rochester
Irondequoit
Reynales
Fossil Hill
Reynales
Thorold
Lower
CATARACT
Cabot Head
Manitoulin
CATARACT
Cabot Head
Manitoulin
Whirlpool
CATARACT
Grimsby
Cabot Head
Man.
Whirlpool
ORDOVICIAN
Upper
Queenston
Georgian Bay
Blue Mountain
Queenston
Georgian Bay
Blue Mountain
Collingwood
Queenston
Georgian Bay
Blue Mountain
Middle
TRENTON
Cobourg
Sherman Fall
Kirkfield
BLACK RIVER
Coboconk
Gull River
Shadow Lake
TRENTON
Cobourg
Sherman Fall
Kirkfield
BLACK RIVER
Coboconk
Gull River
Shadow Lake
TRENTON
Cobourg
Sherman Fall
Kirkfield
BLACK RIVER
Coboconk
Gull River
Shadow Lake
CAMB.
Upper
Eau Claire
Mt. Simon
Theresa
Potsdam
PRECAMB
Crystalline
Basement

Appendix III. List Of Publications And Maps

The following publications and maps are available through the Public Information Centre, Ministry of Natural Resources, Room 1640, Whitney Block, Queens Park, Toronto, Ontario, M7A 1W3. Orders should be accompanied by cheque or money order, payable to the Treasurer of Ontario. Open File Reports can be ordered from the Mines Library, Ministry of Northern Development and Mines, Room 812, 77 Grenville St., Toronto, Ontario, M7A 1W4. Telephone 416-965-1352.

Annual Reports

	Price
Annual Report, 1954, Ontario Fuel Board	$ 1.00
Annual Reports, 1960, 1966, 1967, 1969, 1970	1.00
Annual Reports, 1971, 1972, 1973, 1974	5.00
Oil and Gas Paper 1, 1978	10.00
Oil and Gas Papers 2-6, 1979-1983	20.00

Ontario Geological Survey - Open File Reports

OFR 5498 Evaluation of the Conventional and Potential Oil and Gas Reserves of the Ordovician of Ontario; by Bailey Geological Services Ltd. and Robert O. Cochrane, 1984, 77p., 8 appendices, 35 figures

OFR 5499 Evaluation of the Conventional and Potential Oil and Gas Reserves of the Cambrian of Ontario; by Bailey Geological Services Ltd. and Robert O. Cochrane, 1984, 72p., 8 appendices, 29 figures

OFR 5555 Evaluation of the Conventional and Potential Oil and Gas Reserves of the Devonian of Ontario, by Bailey Geological Services Ltd. and Robert O. Cochrane, 1985, 178p., 9 appendices, and 46 figures.

OFR 5578 Evaluation of Conventional and Potential Oil and Gas Reserves of the Silurian Sandstone Reservoirs of Ontario; by Bailey Geological Services Ltd. and Robert O. Cochrane, 1985, 275p.. 12 appendices, and 39 figures.

Ontario Geological Survey - Petroleum Resources P. Number Maps Available At A Scale Of 1:250,000

All P. Number Maps are 50 cents each unless otherwise specified

P.2625	Structure Top Trenton Group, North West Area, Southern Ontario
P.2626	Structure Top Trenton Group, South West Area, Southern Ontario
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Ontario Geological Survey - Petroleum Resources P. Number Maps Available At A Scale Of 1:100,000

P.2740	Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map A

P.2741 Structure, Top Pre-Hamilton, Devonian Carbonates, Lake Erie Map B
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P.2947 Isopach Silurian Whirlpool Sandstone, Grey County.
P.2948 Isopach Silurian Whirlpool Sandstone, Simcoe County.

Miscellaneous Publications

Paper 70-2 Gas Analysis Ontario Gas Wells 1.00

Paper 70-4 Supplement to Catalogue of Ontario Well Samples at the Geological Survey of Canada 1.00

Minutes and Seconds expressed as Decimal parts of a Degree
MP/3 no charge

Petroleum Possibilities of the James Bay Lowland Area - Volume 61, Part 6 (maps included), 1952 1.50

Industrial Mineral Report No. 6, Salt in Ontario by D.F. Hewitt, 1962 1.50

MAPS

Maps and copies of well history cards and related technical information may be obtained by writing to Petroleum Resources Section, Ministry of Natural Resources, 659 Exeter Road, P.O. Box 5463, London, Ontario N6A 4L6 (519-661-2766). Well history cards may also be obtained at the Petroleum Resources Laboratory (519-661-2796).

Well Location and Status (current)

NTS Series - Key Map
Scale 1:30,000 1.50 each

A2, 3,	(3A Pelee Island)
B1 to 5	(inclusive)
C1 to 7	(inclusive)
D1 to 13	(inclusive)
E4 to 18	(inclusive)
F4 to 17	(inclusive)
G6 to 10	(inclusive)
H7 to 9	(inclusive)
17 to 9	(inclusive)
J7 to 8	(inclusive)
K7 to 8	(inclusive)
Q5 to 6	(Manitoulin Island)

Lake Maps

Scale 1:50,000
Showing Well and Pipeline Locations (West Longitude) 3.00 each

Lake Erie Map A	79 30' - 78 55'
Lake Erie Map B	80 00' - 79 30'
Lake Erie Map C	80 30' - 80 00'
Lake Erie Map D	81 00' - 80 30'
Lake Erie Map E	81 31' - 81 00'
Lake Erie Map F	82 00' - 81 30'
Lake Erie Map G	82 30' - 82 00'
Lake Erie Map H	83 10' - 82 30'

Geological Maps

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1263A (1969)

S.W. Regional Structure Contour Maps

Scale 1:250,000 5.00 each

76-100	PreCambrian
76-101	Cambrian
76-102	Trenton
76-103	Queenston
76-104	Rochester
76-105	Salina
76-106	Bass Islands
76-107	Dundee
76-109	A-2

Field And Pool Maps

Scale 1:20,000 1.00 each

Aldborough 4-20-VII
Arthur
Becher West
Bentpath
Bickford
Brigden
Clearville
Colchester
Corey East
Corunna
Courtright
Coveny
Cromar
Crowland
Dawn 4-28-III
Dawn 4-33-IX
Dawn 5-27-III
Dawn 5-30-IV
Dawn 7-28-V
Dawn 23-II
Dawn 47-49
Dawn 59-85
Dawn 156
Dawn 167
Dawn Sombra
Dover
Dover 1-11-V
Dover 7-5-V
Dungannon
Enniskillen 2-30-IX
Enniskillen 28
Glencoe
Gobles
Gosfield South
Grand Bend
Hemlock
Innerkip
Innerkip East
Kimball-Colinville, Payne, Seckerton
Ladysmith
Malden
Mersea 1-15-B
Moore 3-21-XII
Moore 7-6-III
Oil City
Oil Springs
Oil Springs East
Osborne
Otter Creek-Otter Creek East
Oxley
Plympton 5-19-VI
Rodney
Rosedale
Ruscom River
Sarnia 1-8-A
St. Patricks
Sombra
Terminus-Terminus North
Tipperary-Tipperary South
Townsend
Venison Creek
Verschoyle West
Waubuno
Wilkesport
Willey
Willey North
Wilsonville
Wilsonville South
Zone

Lake Erie Geological

Scale 1:50,000 4.00 each

1	Queenston Structure	8 maps
2	Thorold-Grimsby Structure	6 maps
3	Irondequoit-Reynales Structure	8 maps
4	Guelph Structure	8 maps
5	A-2 Structure	8 maps
6	B-Marker Structure	8 maps
7	Bass Islands Structure	8 maps
8	Dundee Structure	5 maps
1	Drift Isopach	8 maps
2	Devonian-Carbonate Isopach	8 maps
3	Bass Island Isopach	8 maps
4	Guelph-Rochester Isopach	8 maps
5	Whirlpool Isopach	5 maps

Oil And Gas Pool & Pipeline Map Of Southwestern Ontario, P2499

Scale 1:250,000 1.50 each

Location Of Seismic Lines, Southwestern Ontario

Scale 1:100,000 .50 each

1979 7 Maps P2573 to P2579 (inclusive)

1980 8 Maps P2707 to P2714 (inclusive)

XEROX FACILITIES

Xerox copies of all production reports, engineering reports, core analyses and well history cards .25 each

MICROFICHE

Hudson Bay - James Bay Microfiche Index Assessment Reports. These reports are out-of-print. A set of reports is on file at the Petroleum Resources Laboratory.

INDEX NUMBER	CONTENTS
A	Field report general geological reconnaisance of Hudson Bay - summer 1908
B	Detailed geomorphic evaluation of James Bay
C	Detailed geomorphic evaluation James Bay Lowlands Aquintaine (compiled by geophoto)
D	Studies of samples collected around the Hudson Bay Lowlands & Northern Islands - Canada summer 1968. Comparisons with Kaskattama No. 1 well - 1969
E	Aeromagnetic interpretation for part of Moosonee River Basin, District of Cochrane, Aquintaine 1969
F	Aerial magnetic interpretation Moose River area, Mid-eastern Oil and Gas Ltd., Anthony Oil and Gas Explorations Ltd., Dolphin Explorations Ltd.
G	Gravity survey, Moose River area, Mid-eastern Oil & Gas Ltd., Anthony Oil & Gas Ltd., Dolphin Explorations Ltd.
H	Gravity survey, Fort Severn Area, Mid-eastern Oil & Gas Ltd., Anthony Oil & Gas Explorations Ltd., Dolphin Explorations Ltd.
I	Aerial magnetic interpretation, Fort Severn area, Mid-eastern Oil & Gas Ltd., Anthony Gas & Oil Explorations Ltd., Dolphin Explorations Ltd.
J	Aerial magnetic interpretation, Moose River area, Transalta Oil & Gas Ltd.
K	Gravity Survey, Moose River area, Transalta Oil & Gas Ltd.
L	Transalta - Geological Report, Licence No. 14502 and 14503 - James Bay
M	Aquintaine - Laboratory Report Pen. No. 1 Well
N	Bluewater - geomorphic evaluation, Moose River Basin
O	Bluewater - G.S.C. Magnetic Data, James Bay
P	Bluewater - Geology, James Bay
Q	Mariner - geology and petroleum possibilities, Moose River Basin
R	Quintaine - Palynoplanktogical study, Sandbank Lake No. 1 Well
S	Consumers' - Aeromagnetic interpretation, James Bay
T	Consumers' - Interpretation of G.S.C. Aeromagnetic Survey Soweska River, James Bay
U	Aquitaine - 1. High Sensitivity Aeromagnetic Survey, James Bay. 2. Refraction and gravity, James Bay
V	Aquitaine - Refraction and gravity survey, Hambly Lake Well No. 1
W	Consumers' - Aeromagnetic Survey, Martinson Lake Report on Airborne Magnetometer surveys for Aquitaine - James Bay Lowlands (not microfilmed)

OUT OF PRINT

Out of print originals are on file with the Mines Library, MNDM, 77 Grenville St., Room 812, Toronto, Ontario, N5S 1B3(416-965-1352)

Annual Reports for 1920-1953, 1955-1959, 1961-1965, 1967, 1968.

Paper 67-2. A Guide to the Subsurface Paleozoic Stratigraphy of Southern Ontario, by R.J. Beards.

Paper 68-2. Subsurface Disposal of Liquid Wastes in Ontario, by D.D. McLean.

Paper 71-2. Structural Geology of Southwestern Ontario and Southeastern Michigan, by Robert J. Brigham.

Paper 73-2. The Oil and Gas Potential of the "Clinton-Cataract" Reservoirs of Norfolk County, by T.A. MacDougall.

Report of the Committee on Oil and Gas Resources Part 1 (Offshore Activity - 1961) Part 2 (Underground Storage of Natural Gas - 1962).

Index of Ordovician and Cambrian Wells Drill in Southwestern Ontario Prior to 1963, by D.A. Sharp.

Paper 11-1a. Background paper on Ontario Petroleum Resources.

Offshore Exploration in Great Lakes Region, by Bryson C. Donnan, 1961.

Geological Circular 7. Offshore Exploration for Gas Under the Canadian Waters of the Great Lakes, by A.C. Newton and W.E. Koepke, 1964.

Figure 24. *Key Map for O.G.S. Petroleum Resources P. Number Maps (1:250 000).*

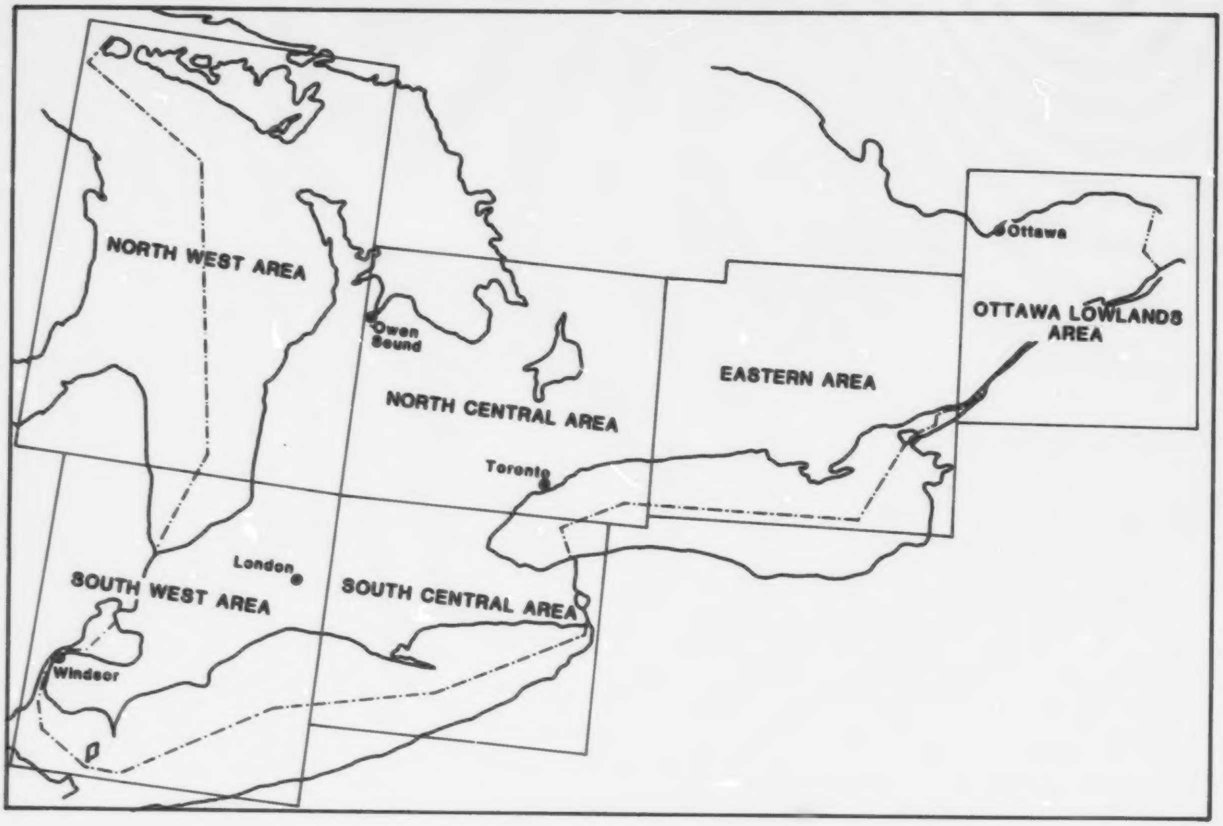
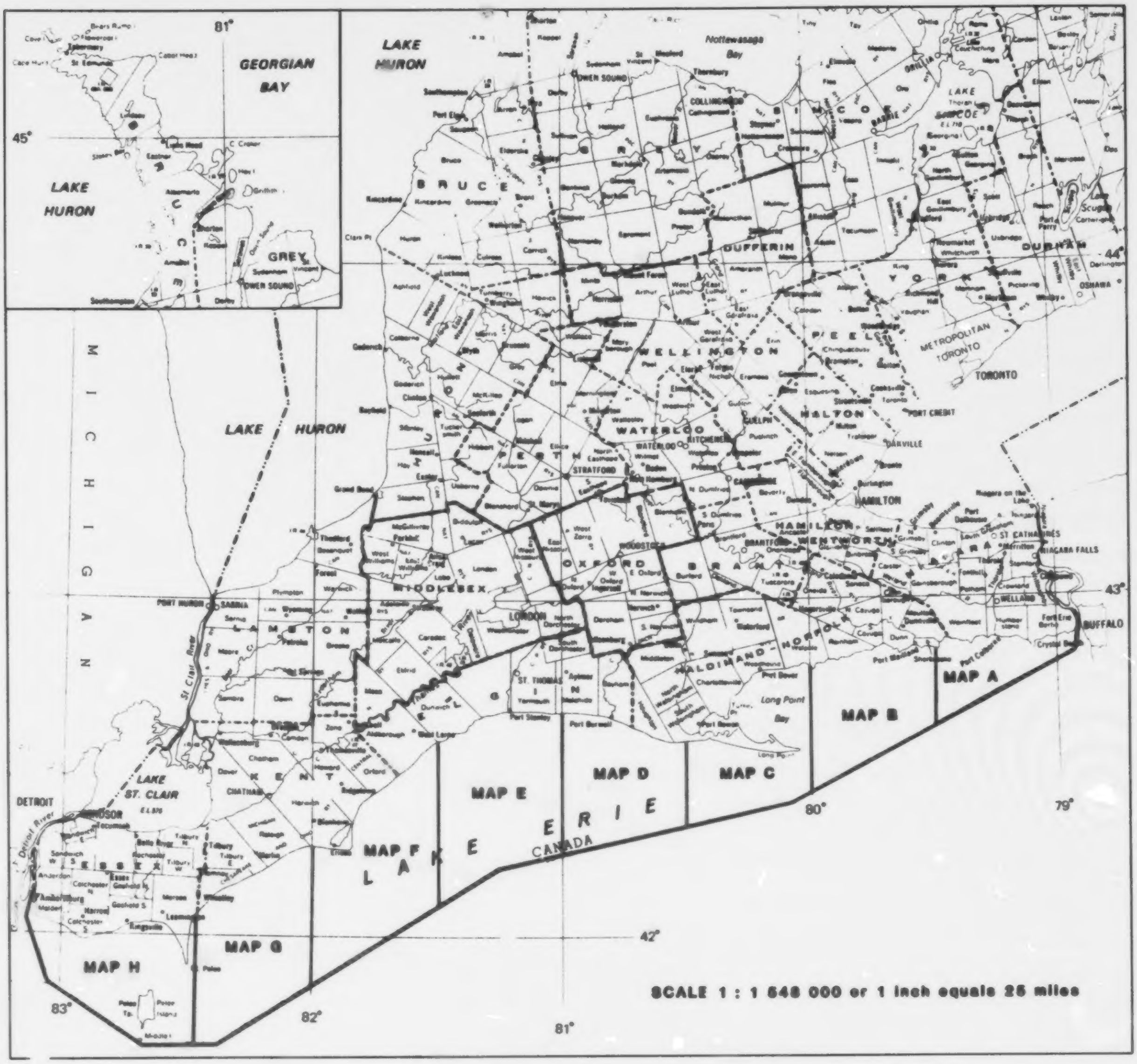

NORTH WEST AREA
Owen Sound
NORTH CENTRAL AREA
EASTERN AREA
Ottawa
OTTAWA LOWLANDS AREA
Toronto
London
SOUTH WEST AREA
SOUTH CENTRAL AREA
Windsor

Figure 25. *Key Map for O.G.S. Petroleum Resources P. Number Maps (1:100 000).*


81°
GEORGIAN BAY
45°
LAKE HURON
BRUCE
GREY
OWEN SOUND
LAKE HURON
Nottawasaga Bay
SIMCOE
LAKE SIMCOE
DUFFERIN
DURHAM
44°
YORK
PEEL
METROPOLITAN TORONTO
TORONTO
WELLINGTON
HALTON
WATERLOO
PERTH
STRATFORD
HURON
HAMILTON
HAMILTON-WENTWORTH
ST CATHARINES
NIAGARA FALLS
BUFFALO
43°
BRANT
OXFORD
MIDDLESEX
LONDON
LAMBTON
PORT HURON
SARNIA
St Clair River
MICHIGAN
ELGIN
ST. THOMAS
HALDIMAND-NORFOLK
Long Point Bay
MAP A
MAP B
MAP C
MAP D
MAP E
MAP F
MAP G
MAP H
KENT
CHATHAM
LAKE ST. CLAIR
DETROIT
WINDSOR
Detroit River
ESSEX
Leamington
LAKE ERIE
CANADA
80°
79°
42°
83°
82°
81°
SCALE 1 : 1 548 000 or 1 inch equals 25 miles

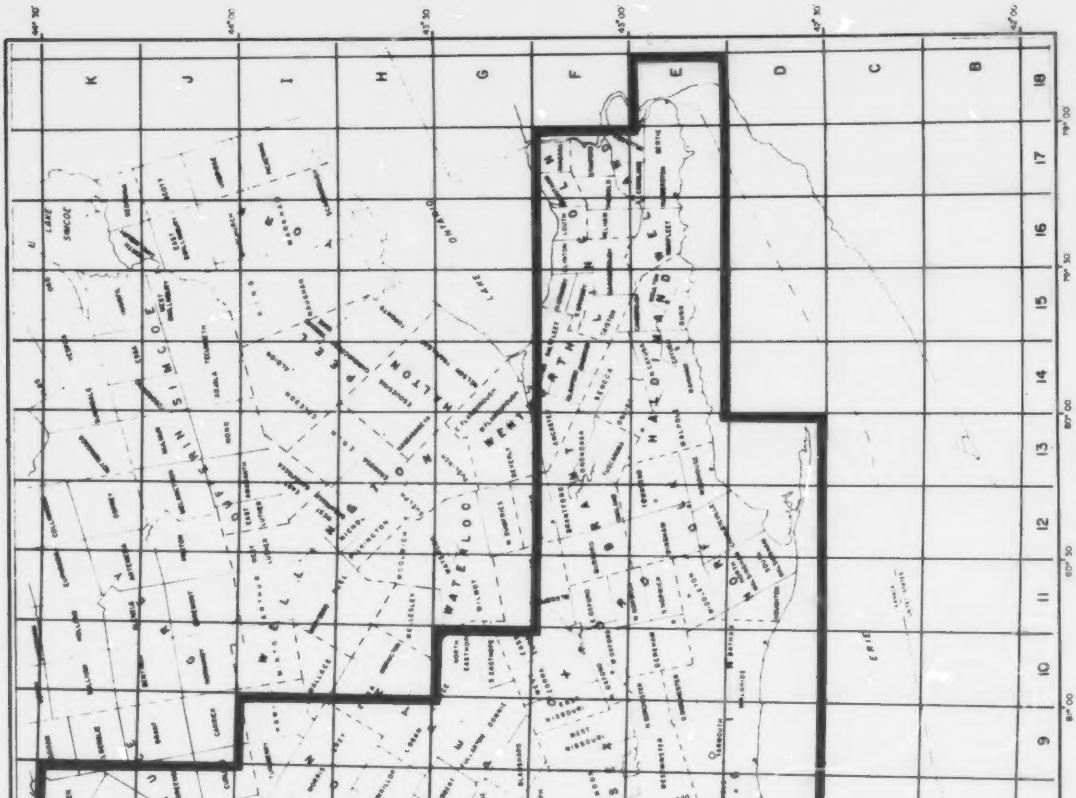

KEY MAP
N.T.S. SERIES
GEORGIAN BAY
LAKE HURON
LAKE SIMCOE
LAKE ONTARIO
LAKE ERIE
LAKE ST CLAIR
GREY
BRUCE
HURON
PERTH
WELLINGTON
DUFFERIN
SIMCOE
HALTON
WATERLOO
WENTWORTH
LINCOLN
WELLAND
HALDIMAND
BRANT
OXFORD
NORFOLK
MIDDLESEX
ELGIN
LAMBTON
KENT
ESSEX
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
42° 00'
42° 30'
43° 00'
43° 30'
44° 00'
44° 30'
83° 00'
82° 30'
82° 00'
81° 30'
81° 00'
80° 30'
80° 00'
79° 30'
79° 00'

Figure 26. *Key Map for (NTS Series) Well Location and Status Base Maps (Onshore – Southwestern Ontario) (1:30 000).*

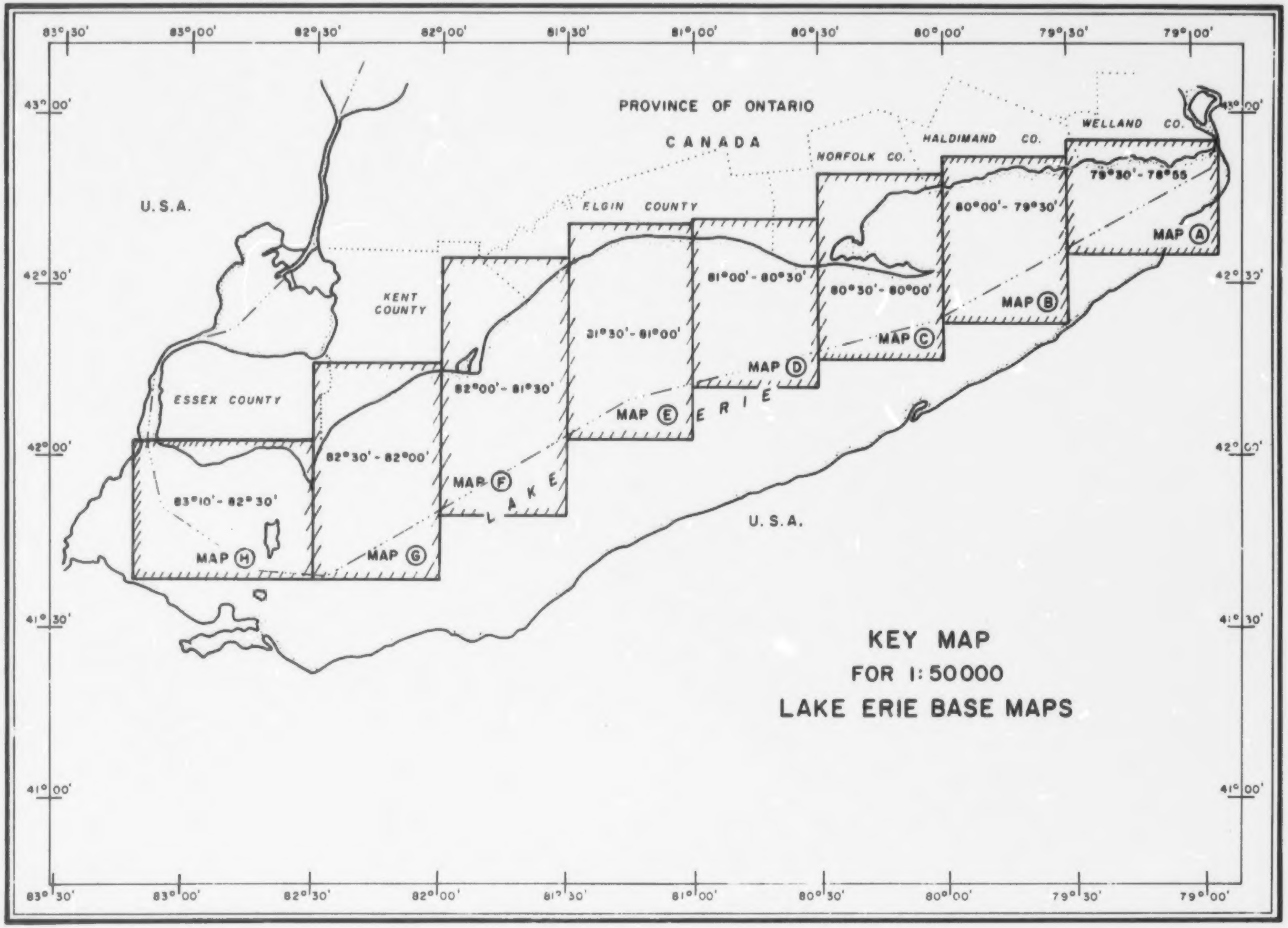

KEY MAP
FOR 1:50000
LAKE ERIE BASE MAPS
PROVINCE OF ONTARIO
CANADA
U.S.A.
U.S.A.
WELLAND CO.
HALDIMAND CO.
NORFOLK CO.
ELGIN COUNTY
KENT COUNTY
ESSEX COUNTY
LAKE ERIE
MAP Ⓐ 79°30' - 78°55
MAP Ⓑ 80°00' - 79°30'
MAP Ⓒ 80°30' - 80°00'
MAP Ⓓ 81°00' - 80°30'
MAP Ⓔ 81°30' - 81°00'
MAP Ⓕ 82°00' - 81°30'
MAP Ⓖ 82°30' - 82°00'
MAP Ⓗ 83°10' - 82°30'
83°30'
83°00'
82°30'
82°00'
81°30'
81°00'
80°30'
80°00'
79°30'
79°00'
43°00'
42°30'
42°00'
41°30'
41°00'

Figure 27. *Key Map for Lake Erie Well Location and Status Base Maps (1:50 000).*

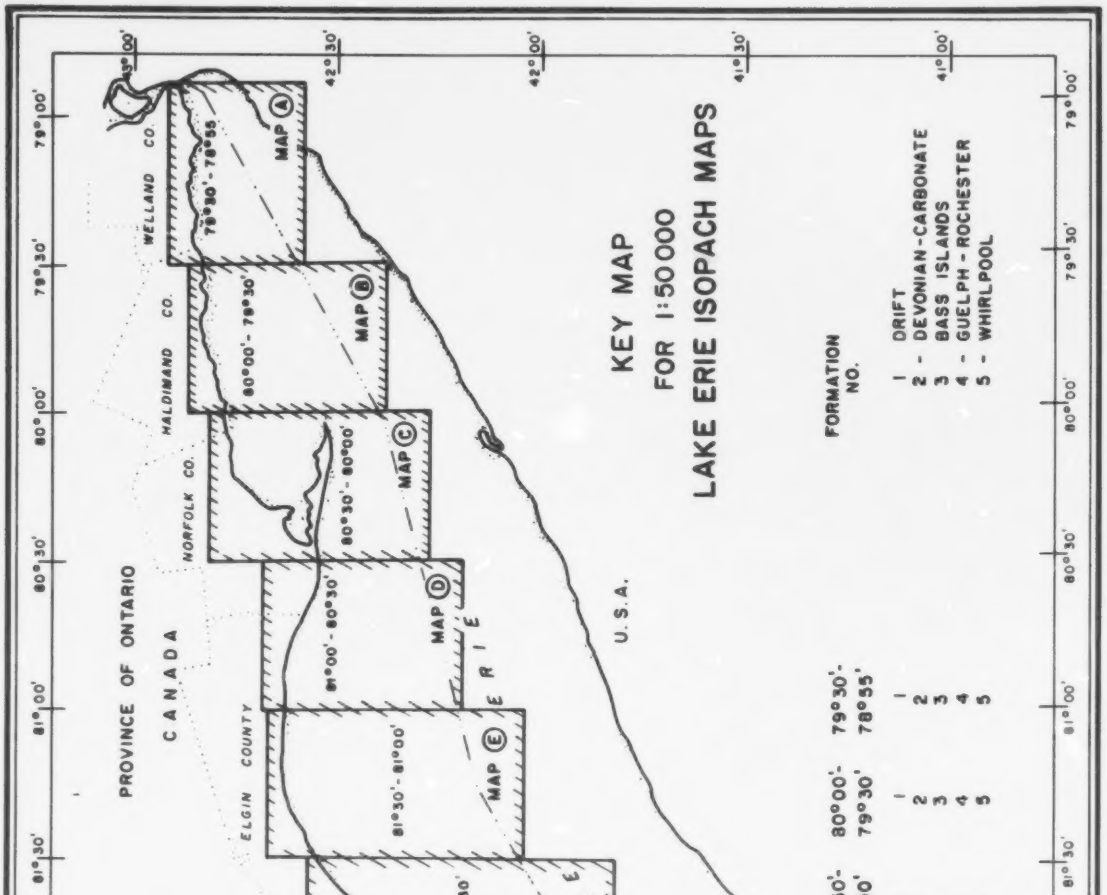

KEY MAP
FOR 1:50000
LAKE ERIE ISOPACH MAPS
PROVINCE OF ONTARIO
CANADA
U.S.A.
U.S.A.
WELLAND CO.
HALDIMAND CO.
NORFOLK CO.
ELGIN COUNTY
KENT COUNTY
ESSEX COUNTY
LAKE ERIE
MAP A
79°30'-78°55'
MAP B
80°00'-79°30'
MAP C
80°30'-80°00'
MAP D
81°00'-80°30'
MAP E
81°30'-81°00'
MAP F
82°00'-81°30'
MAP G
82°30'-82°00'
MAP H
83°10'-82°30'
43°00'
42°30'
42°00'
41°30'
41°00'
83°30'
83°00'
82°30'
82°00'
81°30'
81°00'
80°30'
80°00'
79°30'
79°00'
FORMATION NO.
1 - DRIFT
2 - DEVONIAN-CARBONATE
3 - BASS ISLANDS
4 - GUELPH-ROCHESTER
5 - WHIRLPOOL
83°10'-82°30': 1 2 3 4
82°30'-82°00': 1 2 3 4
82°00'-81°30': 1 2 3 4
81°30'-81°00': 1 2 3 4 5
81°00'-80°30': 1 2 3 4 5
80°30'-80°00': 1 2 3 4 5
80°00'-79°30': 1 2 3 4 5
79°30'-78°55': 1 2 3 4 5

Figure 28. *Key Map for Lake Erie Isopach Maps (1:50 000).*

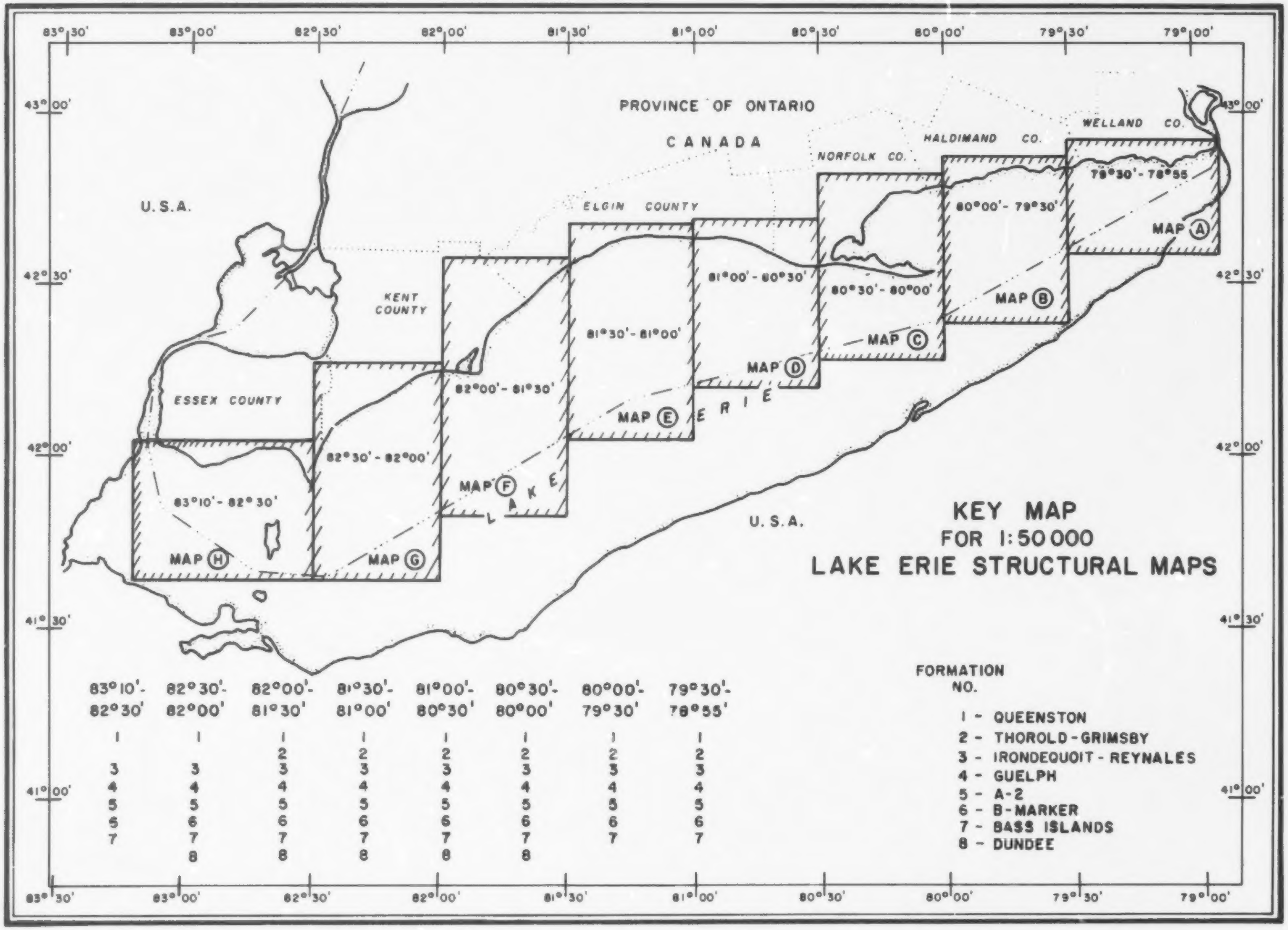

KEY MAP
FOR 1:50 000
LAKE ERIE STRUCTURAL MAPS
PROVINCE OF ONTARIO
CANADA
U.S.A.
U.S.A.
WELLAND CO.
HALDIMAND CO.
NORFOLK CO.
ELGIN COUNTY
KENT COUNTY
ESSEX COUNTY
LAKE ERIE
MAP A
MAP B
MAP C
MAP D
MAP E
MAP F
MAP G
MAP H
79°30' - 78°55'
80°00' - 79°30'
80°30' - 80°00'
81°00' - 80°30'
81°30' - 81°00'
82°00' - 81°30'
82°30' - 82°00'
83°10' - 82°30'
83°30'
83°00'
82°30'
82°00'
81°30'
81°00'
80°30'
80°00'
79°30'
79°00'
43°00'
42°30'
42°00'
41°30'
41°00'
83°10'-82°30': 1, 3, 4, 5, 6, 7
82°30'-82°00': 1, 3, 4, 5, 6, 7, 8
82°00'-81°30': 1, 2, 3, 4, 5, 6, 7, 8
81°30'-81°00': 1, 2, 3, 4, 5, 6, 7, 8
81°00'-80°30': 1, 2, 3, 4, 5, 6, 7, 8
80°30'-80°00': 1, 2, 3, 4, 5, 6, 7, 8
80°00'-79°30': 1, 2, 3, 4, 5, 6, 7
79°30'-78°55': 1, 2, 3, 4, 5, 6, 7
FORMATION NO.
1 - QUEENSTON
2 - THOROLD-GRIMSBY
3 - IRONDEQUOIT-REYNALES
4 - GUELPH
5 - A-2
6 - B-MARKER
7 - BASS ISLANDS
8 - DUNDEE

Figure 29. *Key Map for Lake Erie Structure Maps (1:50 000).*

Appendix IV.
Explanation Of Data Items And Abbreviations.

WELL NAME: The official name of the well as issued on the Permit to Bore, Drill, or Deepen a Well (Form 106).

PERMIT NO.: This number is assigned to the well location upon approval of the Application for a Permit to Bore, Drill, or Deepen a Well. Where the original location is abandoned as a result of drilling or completion difficulties, and the rig is moved or skidded to a new location within the same drilling tract, the original Permit No. using the alphabetical suffix "A" will apply to the second well.

CLASSIFICATION: Each well is classified at the time the Application for a Permit to Bore, Drill, or Deepen a Well is approved.

Classification Codes

NPW	New Pool Wildcat
DPT	Deeper Pool Test
SPT	Shallower Pool Test
DEV	Development
BD	Brine Disposal
BW	Natural Brine Production
INJ	Injection
LPG	Liquid Petroleum Gas Storage
NGS	Natural Gas Storage
OBS	Observation
SM	Solution Mining
STR	Stratigraphic Test

TARGET: Chronostratigraphic system or lithostratigraphic group which include the rock unit which is the primary target of the well being drilled. Seven primary targets are recognized in Ontario.

DEV	Devonian
SIL	Silurian - unsubdivided
SAL	Silurian - targets within the Salina Group and Guelph Formation in particular, and the Rochester to Bass Islands Formations inclusive.
CLI	Silurian - targets within the Clinton and Cataract (or Medina) Groups (Whirlpool to Irondequoit Formations inclusive).
ORD	Ordovician
CAM	Cambrian
PRE	Precambrian (usually stratigraphic tests).

CURRENT STATUS: Status of the well following drilling and completion (if attempted).

Current Status Codes

GP	Gas Producer
GP-SUS	Gas Producer-Suspended
GP-ABD	Gas Producer-Abandoned
GS	Gas Show
GS-SUS	Gas Show-Suspended
GS-ABD	Gas Show Abandoned
OP	Oil Producer
OP-SUS	Oil Producer-Suspended
OP-ABD	Oil Producer-Abandoned
OS	Oil Show
OS-SUS	Oil Show-Suspended
OS-ABD	Oil Show-Abandoned
BD	Brine Disposal
BD-SUS	Brine Disposal-Suspended
BD-ABD	Brine Disposal-Abandoned
BP	Brine Producer
BP-SUS	Brine Producer-Suspended
BP-ABD	Brine Producer-Abandoned
DH	Dry Hole
DH-SUS	Dry Hole-Suspended
DH-ABD	Dry-Abandoned
INJ	Injection
INJ-SUS	Injection-Suspended
INJ-ABD	Injection-Abandoned
LOST-SUS	Lost-Suspended
LOST-ABD	Lost-Abandoned
LPG	Liquid Petroleum Storage
LPG-SUS	Liquid Petroleum Storage-Suspended
LPG-ABD	Liquid Petroleum Storage-Abandoned
NGS	Natural Gas Storage
NGS-SUS	Natural Gas Storage-Suspended
NGS-ABD	Natural Gas Storage-Abandoned
OBS	Observation
OBS-SUS	Observation-Suspended
OBS-ABD	Observation-Abandoned
SOURCE	Water Source Well
SOURCE-SUS	Water Source Well-Suspended
SOURCE-ABD	Water Source Well-Abandoned
STR-SUS	Stratigraphic Test-Suspended
STR-ABD	Stratigraphic Test-Abandoned

RESULTS: Results of the drilling operation. The results are usually but not necessarily the same as the well status following completion. For example, a reentry of an existing oil producer for a deeper pool test may be unsuccessful in discovering a new accumulation of hydrocarbons at the target horizon. Consequently the results of the drilling operation would be DH, but the status would be OP if the well is recompleted at the original producing interval.

GEOGRAPHIC DESCRIPTION: Wells are listed alphabetically by County, Township, Block, Tract, Lot, and Concession.

Abbreviations for concessions

AUS	Ausable
BF	Broken Front
FLH	Front Lake Huron
LRE	Lake Road East
LRW	Lake Road West
NB	North Boundary
NER	North Egremont Road
NLR	North Lake Road
NTR	North Talbot Road
NUR	North Union Road
R	Range
SB	South Boundary
SER	South Egremont Road
SLR	South Lake Road
STR	South Talbot Road
SUR	South Union Road

CO-ORDINATES: Surveyed co-ordinates for all land wells are given in metres from lot lines, unless otherwise stated. Surveyed co-ordinates for lake wells are recorded by latitude and longitude, in degrees, minutes, and seconds. Latitude and longitude values for all land wells have also been determined and appear in this report.

KB ELEVATION: Ground elevation in metres above sea level plus number of metres to rig floor or kelly bushing.

RIG TYPES: Abbreviation for rig types are as follows

CAB	Cable Tool Rig
ROT	Rotary Rig
UNK	Unknown

SAMPLES: Drill cuttings samples are retained for all wells and are available for examination at:

Petroleum Resources Laboratory
Ontario Ministry of Natural Resources
659 Exeter Road
London, Ontario, Canada
N6A 4L6

CORES: The intervals cored are given and unless otherwise stated, the cores are stored at the Petroleum Resources Laboratory.

Core Type Codes

CC1	2.5 cm Wedge
CC2	Conventional (greater than 5 cm)
CCF	Full Width Slab
CCO	Core Chips Only
RSO	Representative Sections Only
SC2	Slimhole (less than 5 cm)
SCS	Slimhole Slabbed

TREATMENT: If a well has been stimulated to increase production, a treatment code is included to indicate the type of stimulation program.

Treatment Type Codes

ACID	Acidized
CONF	Fracture-conventional
OYNM	Explosives-dynamite
FOAM	Fracture-foam
LARF	Fracture-large volume
NTGY	Explosives-nitroglycerine
SHOT	Explosives-shot

LOGGING RECORD: The type of logs taken at the well and the logging company are recorded.

Log Type Codes

ACSL	Acoustic
CALP	Caliper
CBLK	Cyberlook
CBND	Cement Bond
CBVD	Cement Bond Variable Density
CCL	Cosing Collar Locator
CDM	Continuous Dipmeter
CFLO	Continuous Flowmeter
CIS	Customer Instrument Services
CLDL	Chloride Detection
CMPL	Completion
CNFD	Compensated Neutron-Formation Density
CNL	Compensated Neutron
COAL	Coal
COL	Carbon/Oxygen
CONL	Contact
CORI	Coriband
DENL	Density
DIFS	Dual Induction Spherically Focussed Laterolog
DIL	Dual Induction Laterolog
DILS	Dual Induction/Sonic
DIPM	Dipmeter
DIRS	Directional Survey
DLL	Dual Laterolog
DLLM	Dual Laterolog Micro SFL
EAS	Epilog Analysis System
ELPR	Electromagnetic Propagation
ES	Electric Survey
FDC	Formation Density Compensated
FFLO	Full Bore Flowmeter
FIT	Formation Internal Tester
FOCL	Focus
FRID	Fracture Identification
FRXL	Forxo
GGDE	Gamma-Gamma Density
GRAD	Gradiometer
GRDL	Guard
GRFD	Gamma Ray-Formation Density
GRL	Gamma Ray
GRNL	Gamma Ray-Neutron
GRSL	Gamma Ray-Sonic
GSAR	Geothermal Saraband
HCDS	Hydrocarbon or Gas
HEL	Hostile Environment
HRT	High Resolution Thermometer
IES	Induction Electric Survey
ISF	Induction Spherically Focussed
ISFM	ISF Microspherically Focussed
ISFS	ISF/Sonic
ISOL	Isotron
LASL	Laser
LATL	Dual Laterolog
LDT	Lithodensity
LSL	Limestone
LSS	Long-spaced Sonic
MAGL	Nuclear Magnetism
MICL	Microlog
MLAT	Microlaterolog
MICS	Microsurvey
MINF	Minifocus
MINL	Minilog
MLAL	Forxo
MLAT	Microlaterolog
MPL	Mechanical Properties
MSFL	Micro-Spherically Focussed Laterolog
MSGM	Microseismogram
NEUT	Neutron
NFLO	Nuclear Flowlog
NGRS	Natural Gamma Ray Spectroscopy
PCT	Production Combination Tool
PEF	Photoelectric Effect
PHOT	Photon
PIP	Precision Identified Perforations
PML	Production Management
PRMS	Permeability Spinner
PRXL	Proximity
PWAS	Prolog Wellsite Analysis System
PXML	Proximity Microlog
RFT	Repeat Formation Tester
RTRS	Radioactive Tracer Survey
SARA	Saraband
SCAT	Scattered Gamma
SNP	Sidewall Neutron Porosity
SONA	Borehole Audio Tracer Survey
SONL	Sonic
SONR	Sonar
SP	Self Potential
SRPG	Surface Recorded Pressure Guage
SRSL	Seismic Reference
SUL	Sulfur
SYRG	Synergetic Log System
TDL	Temperature Differ
TDST	Through Drillstem Logging
TDT	Thermal Neutron Decay Time
TEL	Thermal Evaluation
TMPL	Temperature
TTC	Through Tubing Caliper
ULSE	Ultra Long Spaced Electrical
VDL	Variable Density
VELS	Velocity Survey
VERL	Vertilog
WLS	Water Location Survey
WST	Well Seismic Tool
XPTL	Experimental

CASING AND TUBING RECORD: Abbreviations for how the casing and tubing are set in the well.

ANC	Anchor Packer
BAR	Barefoot
BHP	Bottom Hole Packer
CEM	Cemented
COL	Collar
HAN	Hanging
HWP	Hook Wall Packer
PAC	Packer
PC	Packer and Cement
SHO	Casing Shoe

WATER RECORD: Abbreviations for type of water encountered while drilling a well.

BRA	Brackish
BLK	Black
FRE	Fresh
SAL	Salt
SUL	Sulfur

GEOLOGY: The geological formation picks are supplied by OMNR geologists. Unpublished operator formation picks are available on Drilling and Completion Records submitted by the operators to the Ministry.

The nomenclature used in this report is based on published descriptions of the various geological units.

Appendix V.
Summary Of Wells Drilled In 1985.

APPENDIX V: SUMMARY OF WELLS DRILLED IN 1985.

Well Name	Permit Number	Completion Date	Target	Total Depth in Metres	Class	Results	Producing Formation	Metres Drilled	Sample Tray Number
COCHRANE									
OGS Onakawana B85 Morrow	6711	85.03.22	PRE	321.0	STR			321.0	9172-73
Subtotal				321.0				321.0	
ELGIN									
CDNOXY Rodney 1-16 Aldborough 2-5-5-IV	6900	85.10.23	DEV	127.4	DEV	OP	Columbus	127.4	383
CDNOXY Rodney 5-30 Aldborough 1-2-5-V	6901	85.10.20	DEV	119.8	DEV	OP	Columbus	119.8	382
CDNOXY Rodney 6-15 Aldborough 1-5-5-V	6899	85.10.17	DEV	123.5	DEV	OP	Columbus	123.5	
CG Oil #4 Aldborough 4-5-15-X	6891	85.10.05	DEV	117.7	NPW	GS-ABD		117.7	
Smith Aldborough 4-7-15-X	6671	85.08.27	DEV	109.0	DEV	OS-ABD		109.0	1842
Eagle #5 Aldborough 1-15-XIII	6727	85.06.13	DEV	106.1	NPW	OS-ABD		106.1	266
Cons et al 33830 Aldborough 2-17-XIII	6735	85.04.26	DEV	108.4	DEV	OP-ABD	Dundee	108.4	299
Gogama No. 1 Aldborough 2-7-20-XI	6820	85.06.19	DEV	161.5	NPW	DH-ABD		161.5	376
Gogama No. 3 Aldborough 2-3-20-XII	6672	85.07.26	DEV	164.6	NPW	DH-ABD		164.6	258
Brett Aldborough 8-23-BF	6823	85.06.24	SAL	97.5	NPW	LOST-ABD		97.5	
Brett Aldborough 8-23-BF	6823A	85.08.30	SAL	449.9	NPW	OP	A-1 Carbonate, Guelph	449.9	5561
Cnockaert #1 Aldborough 4-2-23-XIII	6813	85.06.24	DEV	161.5	NPW	DH-ABD		161.5	1846
Denison #1 Southwold 1-27-NTR	6878	85.09.06	CAM	1119.0	NPW	OS-ABD		1119.0	9095-96
Subtotal				2965.9				2965.9	
ESSEX									
Lucas No. 3 Anderdon 2-4-VIII	6952	85.12.10	DEV	30.6	STR			30.6	374
Allied Chemical E-8 Anderdon 34-I	6840	85.08.29	SAL	384.4	SM	SM		384.4	8010
Allied Chem. E-1 Anderdon 34-I	6839	85.10.05	SAL	376.4	SM	SM		376.4	7806
Lucas No. 2 Colchester South 1-11-V	6951	85.12.12	DEV	29.7	STR			29.7	396
Cons et al 34013 Mersea 2-4-VII	6896	85.11.08	ORD	1069.0	NPW	DH-ABD		1069.0	6856-57
Cons et al 34014 Mersea 8-4-VIII	6894	85.12.03	SAL	381.0	NPW	OS-ABD		381.0	7324
Lucas No. 1 Mersea 7-6-IV	6950	85.12.13	DEV	32.1	STR			32.1	1889
Cons et al 34100 Mersea 1-10-I	6895	85.10.29	ORD	870.0	DEV	OP	Cobourg	870.0	6854-55
Cons et al 34102 Mersea 1-11-I	6897	85.11.18	ORD	1060.0	DEV	OP	Cobourg	1060.0	6860-61
Cons et al 33822 Mersea 5-11-I	6825	85.07.14	ORD	1020.0	DEV	OP	Cobourg	1020.0	9078-79
Cons et al 33823 Mersea 1-12-A	6826	85.07.19	ORD	1015.0	DEV	OP	Cobourg, Verulam	1015.0	9105-06
Cons et al 33821 Mersea 3-12-I	6669	85.02.18	ORD	1018.0	DEV	OP	Cobourg, Verulam	1018.0	9886-88
Cons et al 33960 Mersea 5-12-I	6732	85.04.21	SAL	170.0	BD			170.0	262
Consumers' et al 33824 Mersea 5-13-A	6831	85.08.07	ORD	1015.0	DEV	OP-SUSP	Verulam	1015.0	6850-51
Cons et al 33826 Mersea 7-13-I	6833	85.08.26	ORD	1065.0	DEV	OP	Cobourg, Verulam	1065.0	9115-16
Cons et al 33825 Mersea 7-14-A	6832	85.08.08	ORD	791.3	DEV	OP	Cobourg, Verulam	791.3	9109-10
Domego Terron #1 Mersea 6-15-B	6942	85.12.16	ORD	1058.0	NPW	DH		1058.0	6846-47
Cons et al 34012 Mersea 6-23-VII	6935	85.11.29	ORD	1090.0	NPW	OP	Cobourg, Verulam	1090.0	9123-24
Subtotal				12475.5				12475.5	

APPENDIX V: CONTINUED.

Well Name	Permit Number	Completion Date	Target	Total Depth in Metres	Class	Results	Producing Formation	Metres Drilled	Sample Tray Number
GREY									
Forbes #1 Keppel 2-22-II	6737	85.08.09	ORD	451.5	DPT	DH-ABD		187.5	6465
Subtotal				451.5				187.5	
HALDIMAND									
Zicari #1 Moulton 4-3-III LE	6847	85.11.21	CLI	237.7	DEV	GP	Grimsby	237.7	347
Varga 1 Seneca 1-3-I WPR	7070	85.12.31	CLI	155.8	NPW	DH-ABD		155.8	
Subtotal				393.5				393.5	
HURON									
D. & L. No. 1 Stephen 1-13-XI	6612	85.07.10	SAL	552.0	NPW	DH-ABD		552.0	6230
Subtotal				552.0				552.0	
KENT									
Cons et al 33980 Camden 3-5-XIII Gore	6886	85.09.25	ORD	1228.5	NPW	DH-ABD		1228.5	6844-45
Francisco-Ewing Chatham 1-10-XIII	6664	85.03.27	SAL	537.1	DEV	OP	A-1,A-2 Carbonate	537.1	354
Francisco et al Chatham 2-12-XII	6738	85.06.24	SAL	522.0	DEV	DH-ABD		522.0	5975
Francisco et al #3 Chatham 2-12-XII	6675	85.10.08	SAL	518.2	NPW	DH-ABD		518.2	8167
Vanroboy #2 Dover 6-5-II E	6905	85.07.26	ORD	1014.4	DPT	DH		17.4	
Rowe/Ram #8A Dover 4-6-IV E	6658A	85.01.18	ORD	1136.0	DEV	OP	Coboconk	1136.0	9065-66
Rowe Ram No. 10 Dover 2-7-IV E	6787	85.05.29	ORD	1159.0	DEV	DH-SUSP		1159.0	9063-64
Rowe Ram No. 9 Dover 6-7-IV E	6778	85.05.14	ORD	1163.0	DEV	GP	Coboconk	1163.0	9061-62
Francisco et al Dover 7-10-V E	6845	85.11.04	ORD	1155.8	NPW	DH-ABD		1155.8	9111-12
PPC #6 Dover 4-35-XIV EBR	6710	85.03.31	ORD	1224.0	NPW	DH-ABD		1224.0	9058-59
Bailey #6 Howard 4-1-5-RFC	6680	85.02.04	DEV	130.0	NPW	GS-ABD		130.0	182
Hala #1 Raleigh 3-3-2-I	6698	85.02.21	DEV	77.7	DEV	OP	Dundee	77.7	261
Dynamar et al Raleigh 1-11-VI	6728	85.07.16	CAM	1153.8	NPW	OS-GS-ABD		1153.8	9072-73
Cameron Doyles #1 Raleigh 5-19-VIII	6630	85.05.04	SAL	510.5	NPW	GP-OS	Guelph	510.5	422
Consumers' 34025 Tilbury East 1-5-NMR	6912	85.11.10	ORD	1155.0	NPW	DH-ABD		1155.0	6848-49
Consumers' et al 33981 Zone 3-15-II	6821	85.06.18	SAL	548.0	NPW	GS-ABD		548.0	5272
Sussex Zone 3-1-21-RR	6877	85.09.14	DEV	126.0	DEV	OS		126.0	290
Sussex Zone 4-2-21-RR	6909	85.11.13	DEV	123.5	DEV	OS-ABD		123.5	392
Subtotal				13482.5				12485.5	
LAKE ERIE									
Place Rainham Lake Erie 18-T-1	6880	85.09.28	CLI	286.8	DEV	GP	Grimsby	286.8	
Place Rainham Lake Erie 18-U-1	6678	85.08.10	CLI	292.0	DEV	GP	Grimsby	292.0	
Place Rainham Lake Erie 18-X-1	6879	85.10.16	CLI	292.6	DEV	GP	Grimsby	292.6	
Pembina #3 Lake Erie 40-Q	6797	85.07.09	CLI	400.3	DEV	GP	Grimsby	400.3	8198
Pembina #1 Lake Erie 40-V	6851	85.09.16	CLI	405.8	DEV	GP	Grimsby	405.8	
Pembina #2 Lake Erie 40-W	6852	85.09.12	CLI	408.5	DEV	DH-ABD		408.5	321
Pembina #3 Lake Erie 40-X	6753	85.06.04	CLI	408.4	DEV	GP	Grimsby	408.4	433

APPENDIX V: CONTINUED.

Well Name	Permit Number	Completion Date	Target	Total Depth in Metres	Class	Results	Producing Formation	Metres Drilled	Sample Tray Number
LAKE ERIE (cont.)									
Pembina #1 Lake Erie 41-M	6742	85.05.08	CLI	375.6	DEV	GP	Whirlpool	375.6	4444
Pembina #2A Lake Erie 41-N	6751	85.06.23	CLI	376.9	DEV	GP	Whirlpool	376.9	311
Pembina #2 Lake Erie 41-V	6752	85.06.29	CLI	395.0	DEV	GP	Whirlpool	395.0	7025
Pembina #1 Lake Erie 42-U	6743	85.08.02	CLI	400.1	DEV	GP	Grimsby	400.1	1504
Pembina #2 Lake Erie 42-V	6750	85.05.13	CLI	398.0	DEV	GP	Grimsby	398.0	1626
Pembina #4 Lake Erie 42-V	6853	85.09.07	CLI	405.7	DEV	GP	Whirlpool	405.7	5684
Place Rainham Lake Erie 43-A-4	6844	85.08.22	CLI	304.0	DEV	GP	Thorold	304.0	
Place Rainham Lake Erie 43-B-2	6838	85.09.02	CLI	282.5	DEV	GP	Grimsby	282.5	
Place Rainham Lake Erie 43-C-2	6881	85.09.14	CLI	304.4	DEV	GP	Grimsby	304.4	
Pembina #2 Lake Erie 43-Y	6802	85.08.20	CLI	399.0	DEV	GP	Grimsby	399.0	5386
Place Charlotteville Lake Erie 48-S-4	6677	85.09.04	CLI	354.8	DEV	GP	Grimsby	354.8	
Place Charlotteville Lake Erie 48-V-1	6888	85.10.25	CLI	362.7	DEV	GP	Grimsby	362.7	
Consumers' 13882 Lake Erie 55-I	6756	85.05.11	CLI	86.0	DEV	OS-ABD		86.0	
Consumers' 13881 Lake Erie 55-P	6755	85.05.09	CLI	491.0	NPW	DH-ABD		491.0	5900
Pembina #4 Lake Erie 62-T	6794	85.08.10	CLI	452.7	DEV	DH-ABD		452.7	3280
Pembina #4 Lake Erie 63-X	6795	85.08.02	CLI	471.8	DEV	DH-ABD		471.8	8148
Pembina #4 Lake Erie 64-A	6828	85.07.29	CLI	414.2	DEV	GP	Grimsby	414.2	5743
Pembina #4 Lake Erie 64-J	6741	85.05.23	CLI	418.3	DEV	GP	Grimsby	418.3	6124
Pembina #3 Lake Erie 65-D	6827	85.07.23	CLI	387.0	DEV	GP	Thorold	387.0	1337
Pembina #3 Lake Erie 65-O	6848	85.08.24	CLI	443.0	DEV	GS-ABD		443.0	5542
Pembina #4 Lake Erie 65-P	6849	85.08.29	CLI	445.0	DEV	GS-ABD		445.0	1516
Pembina #1 Lake Erie 65-Q	6739	85.05.28	CLI	432.0	DEV	GS-ABD		432.0	333
Pembina #2 Lake Erie 65-W	6829	85.07.15	CLI	462.6	DEV	GP	Grimsby	462.6	8194
Pembina #3 Lake Erie 65-X	6740	85.05.18	CLI	454.0	DEV	GP	Grimsby	454.0	6260
Pembina #4 Lake Erie 67-J	6855	85.09.02	CLI	441.9	DEV	GP	Grimsby	441.9	5620
Pembina #1 Lake Erie 67-M	6744	85.08.25	CLI	441.8	DEV	GP	Grimsby	441.8	4357
Pembina #2 Lake Erie 68-P	6748	85.08.05	CLI	457.9	DEV	GP	Whirlpool	457.9	5860
Pembina #2 Lake Erie 68-I	6798	85.07.29	CLI	432.0	DEV	DH-ABD		432.0	1289
Pembina #2 Lake Erie 68-X	6854	85.09.06	CLI	470.9	DEV	DH-ABD		470.9	6491
Pembina #3 Lake Erie 69-E	6799	85.07.25	CLI	418.8	DEV	GS-ABD		418.8	5687
Pembina #4 Lake Erie 69-M	6791	85.07.19	CLI	458.2	DEV	GS-ABD		458.2	7028
Pembina #2 Lake Erie 70-C	6747	85.06.09	CLI	415.0	DEV	GP	Grimsby	415.0	5540
Pembina #4 Lake Erie 70-C	6858	85.09.21	CLI	438.5	DEV	GP	Grimsby	438.5	6785
Pembina #2 Lake Erie 70-F	6746	85.06.23	CLI	419.6	DEV	GP	Grimsby	419.6	9029
Pembina #1 Lake Erie 70-R	6745	85.06.16	CLI	466.8	DEV	GP	Grimsby	466.8	9029
Pembina #1A Lake Erie 70-S	6857	85.10.03	CLI	470.1	DEV	GP	Grimsby	470.1	1530
Pembina #1 Lake Erie 70-V	6856	85.09.13	CLI	479.0	DEV	GP	Whirlpool	479.0	5183
Pembina #2 Lake Erie 71-C	6800	85.07.13	CLI	441.2	DEV	GS-ABD		441.2	5699
Pembina #2 Lake Erie 86-E	6749	85.08.12	CLI	464.7	DEV	GP	Grimsby	464.7	7048
Pembina #1 Lake Erie 88-O	6801	85.08.19	CLI	500.7	NPW	GP	Grimsby	500.7	4463
Pembina #2 Lake Erie 89-C	6789	85.07.04	CLI	471.8	DEV	GP	Grimsby	471.8	1523
Pembina #2 Lake Erie 89-I	6790	85.07.08	CLI	490.5	DEV	GP	Whirlpool	490.5	8188
Pembina #2 Lake Erie 89-R	6793	85.08.14	CLI	501.8	DEV	DH-ABD		501.8	4650
Consumers' 13889 Lake Erie 93-O	6763	85.05.29	CLI	479.0	DEV	GP-SUSP	Thorold, Grimsby	479.0	7103

APPENDIX V: CONTINUED.

Well Name	Permit Number	Completion Date	Target	Total Depth in Metres	Class	Results	Producing Formation	Metres Drilled	Sample Tray Number
LAKE ERIE (cont.)									
Consumers' 13890 Lake Erie 93-Q	6764	85.05.24	CLI	492.0	NPW	GS-ABD		492.0	5797
Consumers' 13903 Lake Erie 93-T	6777	85.06.05	CLI	500.0	NPW	GP-SUSP	Thorold, Grimsby	500.0	5613
Consumers' 13888 Lake Erie 94-R	6762	85.06.01	CLI	510.0	NPW	GP	Thorold, Grimsby	510.0	7202
Consumers' 13886 Lake Erie 94-Y	6760	85.05.17	CLI	510.0	DEV	DH-ABD		510.0	1567
Consumers' 13884 Lake Erie 96-K	6758	85.06.09	CLI	501.0	DEV	DH-ABD		501.0	1641
Consumers' 13883 Lake Erie 96-P	6757	85.06.13	CLI	514.0	DEV	DH-ABD		514.0	6802
Diamond Shamrock Lake Erie 113-O	6817	85.08.14	CAM	1296.0	NPW	DH-ABD		1296.0	9076-77
Diamond Shamrock Lake Erie 117-G	6818	85.08.23	CAM	1269.0	NPW	DH-ABD		1269.0	9091-92
Consumers' 13892 Lake Erie 122-Q	6766	85.06.12	CLI	556.0	DEV	GP	Thorold, Grimsby	556.0	4648
Consumers' 13902 Lake Erie 127-E	6776	85.05.20	CLI	510.0	DEV	GP	Thorold, Grimsby	510.0	5759
Consumers' 13893 Lake Erie 156-R	6767	85.09.21	CLI	595.1	DEV	GS-ABD		595.1	5649
Consumers' 13896 Lake Erie 157-O	6770	85.09.14	CLI	589.0	DEV	GP	Grimsby	589.0	7647
Consumers' 13897 Lake Erie 159-K	6771	85.06.20	CLI	592.0	DEV	DH-ABD		592.0	1212
Consumers' 13898 Lake Erie 160-P	6772	85.06.23	CLI	615.0	DEV	GP	Grimsby	615.0	1469
Diamond Shamrock Lake Erie 175-H	6814	85.08.02	CAM	1340.0	NPW	GP	Cabot Head	1340.0	9093-94
Diamond Shamrock Lake Erie 175-T	6871	85.09.03	CAM	1365.0	NPW	DH-ABD		1365.0	9088-89
Consumers' 13899 Lake Erie 182-U	6773	85.09.10	CLI	646.0	DEV	GP	Thorold, Grimsby	646.0	8770
Consumers' 13895 Lake Erie 185-G	6769	85.09.17	CLI	602.0	DEV	GS-ABD		602.0	8479
Consumers' 13894 Lake Erie 186-G	6768	85.06.16	CLI	627.0	DEV	GS-ABD		627.0	1458
Consumers' 13878 Lake Erie 187-E	6754	85.09.25	CLI	610.0	DEV	GS-ABD		610.0	7149
Consumers' 13900 Lake Erie 220-P	6774	85.09.06	CLI	701.8	DEV	GP	Grimsby	701.8	8312
Diamond Shamrock Lake Erie 239-C	6816	85.07.09	CAM	1350.0	NPW	DH-ABD		1350.0	9067-68
Diamond Shamrock Lake Erie 240-V	6815	85.07.20	CAM	1436.0	NPW	GS-ABD		1436.0	9069-71
Consumers' 13901 Lake Erie 243-M	6775	85.06.28	CLI	741.0	NPW	DH-ABD		741.0	1208
Subtotal				39438.8				39438.8	
LAMBTON									
Shawnee Talcorp Brooke 3-2-XII	6660	85.03.08	SAL	636.0	NPW	OS-ABD		636.0	9989-90
Shawnee Tal #2 Brooke 3-2-XII	6834	85.07.30	SAL	647.0	NPW	OS-ABD		647.0	9074-75
D. & L. Oil #2 Brooke 3-10-IX	6872	85.09.25	SAL	605.0	NPW	DH-ABD		605.0	1677
Ram #85 Brooke 4-18-II	6939	85.12.11	ORD	1177.0	NPW	DH-ABD		1177.0	9117-18
Smith Dawn 3-24-XIII	6665	85.04.15	SAL	560.8	NPW	GS-ABD		560.8	9027-28
Forbes #20 Dawn 1-28-II	6835	85.07.12	SAL	604.0	DEV	OP	Guelph	8.2	7997
Forbes #35 Dawn 5-28-II	6718	85.04.10	SAL	611.0	DEV	OS-ABD		611.0	1087
Union Dawn 6-28-II	6806	85.06.24	SAL	603.5	DEV	OP	Guelph	0.0	
Forbes #36 Dawn 5-29-II	6733	85.05.17	SAL	605.0	DEV	OP-GS	Guelph	605.0	1129
P-R & Associates #2 Dawn 4-30-III	6714	85.06.13	SAL	603.5	NPW	OP-GS	Guelph	603.5	1147
Union Dawn 256 Dawn 32-I	6606	85.03.05	SAL	579.0	NGS	NGS		579.0	1085
Union Dawn 255 Dawn 32-I	6605	85.03.07	SAL	579.0	NGS	NGS		579.0	1079
Union Dawn 252 Dawn 33-II	6595	85.02.01	SAL	578.2	NGS	NGS		578.2	9879
Shawnee Talcorp Enniskillen 4-3-IV	6659	85.01.14	SAL	651.0	NPW	DH-ABD		651.0	9877-78
Ram #83 Enniskillen 6-12-IX	6893	85.11.28	SAL	701.0	NPW	DH-ABD		701.0	9113-14
P-R & LEO 85-1 Enniskillen 3-2-13-I	6932	85.12.12	DEV	115.5	NPW	OS-ABD		115.5	379

APPENDIX V: CONTINUED.

Well Name	Permit Number	Completion Date	Target	Total Depth in Metres	Class	Results	Producing Formation	Metres Drilled	Sample Tray Number
LAMBTON (cont.)									
Mid Pet Disposal #1 Enniskillen 3-13-XI	6846	85.09.04	DEV	237.1	BD	BD		237.1	124
Forbes #38 Enniskillen 5-14-VIII	6874	85.09.30	SAL	661.0	NPW	OS-ABD		661.0	9107-08
Forbes #37 Enniskillen 3-17-IX	6842	85.09.09	SAL	668.0	NPW	DH-ABD		668.0	1242
Jacques #9 Enniskillen 2-5-17-X	6618	85.02.06	DEV	143.5	DEV	OP	Lucas	143.5	251
Jacques #8 Enniskillen 3-4-17-X	6617	85.10.02	DEV	143.0	DEV	OP	Dundee	143.0	350
Jacques #10 Enniskillen 3-5-17-X	6780	85.08.05	DEV	143.3	DEV	OP	Dundee, Lucas	143.3	372
Cons OEC 33983 Enniskillen 8-21-V	6869	85.09.19	SAL	630.0	NPW	DH-ABD		630.0	1506
I.O.E. Moore Source Well No. 1 Moore 4-2-XII	6902	85.10.12	DEV	243.8	BD	BD		243.8	
Ram #81 Moore 2-9-IV	6870	85.09.13	ORD	1291.0	NPW	OP	A-1 Carbonate	1291.0	9097-98
Brett Moore 3-14-X	6683	85.08.20	SAL	766.0	NPW	OP	Guelph	766.0	9082-83
Tec Kim-Col #52 Moore 2-17-VII	6715	85.04.18	SAL	692.0	NGS	NGS		692.0	9054-55
Tec Kim-Col #47 Moore 18-VI	6717	85.05.17	SAL	689.0	NGS	NGS		689.0	9056-57
Union Payne 19 Moore 21-VII	6781	85.07.30	SAL	670.0	NGS	NGS		670.0	9084-85
Union Payne #21 Moore 21-VII	6783	85.07.31	SAL	671.0	NGS	NGS		671.0	9080-81
Union Payne 20 Moore 22-VII	6782	85.07.12	SAL	697.0	NGS	NGS		697.0	9086-87
Dow #82 Moore 23-XII	6808	85.08.03	SAL	662.0	SM	SM		662.0	9090
Dow HC #9 Moore 25-XI	6622	85.01.21	SAL	665.0	SM	SM		665.0	3279
Dow HC #11 Moore 25-XI	6807	85.08.22	SAL	670.0	SM	SM		670.0	1330
Dow HC #12 Moore 25-XI	6809	85.09.14	SAL	672.0	SM	SM		672.0	8315
Forbes #39 Moore 3-27-III	6890	85.11.06	SAL	766.0	NPW	DH-ABD		766.0	9103-04
Dome Amoco RO-6B Sarnia 8-B	6679	85.02.21	SAL	816.0	LPG	LPG		816.0	
Imperial Oil #270 Duthill #7 Sombra 3-11-IX	6885	85.09.23	SAL	535.0	DEV	OS-ABD		535.0	
Forbes #41 Sombra 6-11-IX	6933	85.12.16	SAL	566.0	DEV	OS-ABD		566.0	7849
Ram #82 Sombra 2-26-VI	6875	85.10.03	ORD	1098.5	NPW	DH-ABD		1098.5	9101-02
Ram #84 Sombra 3-26-VI	6907	85.11.13	ORD	1190.0	NPW	GP	Coboconk	1190.0	6842-43
Bakersfield #1 Sombra 2-3-30-XV	6841	85.09.16	DEV	158.5	NPW	DH-ABD		158.5	366
C.G. Oil #3 Warwick 3-4-III SER	6673	85.08.27	SAL	681.0	NPW	DH-ABD		681.0	9099-00
Subtotal				26682.2				25482.9	
MANITOULIN ISLAND									
OGS 85-7 Cockburn Island 16-II	6883	85.09.17	PRE	521.0	STR			521.0	9127-29
Subtotal				521.0				521.0	
MIDDLESEX									
C. & G. Oil #6 Ekfrid 4-2-6-V	6908	85.10.25	DEV	137.2	NPW	DH-ABD		137.2	402
Cons et al 33979 Ekfrid 4-14-Range IV S	6876	85.09.11	CAM	1106.0	NPW	DH-ABD		1106.0	6858-59
PPC No. 7 McGillivray 3-5-XXII	6812	85.07.29	SAL	581.0	NPW	GS-ABD		581.0	9060
Sussex et al Mosa 1-1-29-Range I S	6882	85.10.08	DEV	151.0	NPW	DH-ABD		151.0	386
Sussex et al Mosa 2-2-29-Range I S	6884	85.09.24	DEV	129.0	NPW	OS-ABD		129.0	390
Martin #1 West Williams 1-22-VII	6674	85.07.22	DEV	37.4	STR	STR-ABD		37.4	242
Subtotal				2141.6				2141.6	

APPENDIX V: CONTINUED.

Well Name	Permit Number	Completion Date	Target	Total Depth in Metres	Class	Results	Producing Formation	Metres Drilled	Sample Tray Number
NORFOLK									
Metalore #73 Charlotteville 4-5-2-VI	6736	85.06.11	CLI	419.0	NPW	GP	Thorold, Grimsby	419.0	8121
Bayview #10 Charlotteville 4-4-VII	6843	85.08.29	CLI	387.0	NPW	GP	Thorold, Grimsby	387.0	8700
Metalore #74 Charlotteville 6-5-IV	6788	85.08.30	CLI	397.8	DEV	GP	Thorold, Grimsby ?	397.8	2996
Hemlock #10 Houghton 1-8-WNR	6667	85.02.15	CLI	420.3	NPW	GP	Grimsby	420.3	1092
Beech Lane #3 Houghton 2-14-I	6731	85.05.06	CLI	422.1	DEV	GP	Grimsby	422.1	7331
Beech Lane #2 Houghton 7-16-II	6713	85.03.22	CLI	415.7	DEV	DH-ABD		415.7	2316
Tulip Middleton 5-25-II STR	6911	85.11.19	CLI	370.9	DEV	DH-ABD		370.9	6495
Impatiens Middleton 6-26-II STR	6786	85.06.21	CLI	369.7	DEV	GP	Thorold, Grimsby ?	369.7	7295
Ivy Geranium Middleton 4-26-II STR	6889	85.10.11	CLI	362.7	DEV	GP	Thorold, Grimsby	362.7	6103
F.M. No. 8 North Walsingham 8-15-VII	6938	85.12.18	CLI	421.2	NPW	GP	Grimsby	421.2	
F & M #9 North Walsingham 8-18-VIII	6961	85.12.30	CLI	395.0	DEV	GP	Thorold	395.0	8385
South Eagle #1 South Walsingham 5-14-II	6662	85.01.02	CLI	447.1	NPW	GP	Grimsby	447.1	1164
Dewey Oil 1 South Walsingham 1-20-II	6685	85.05.25	CLI	437.7	NPW	GP	Thorold-Grimsby	437.7	1625
Dominion 684 Woodhouse 2-6-III	6920	85.12.03	CLI	350.2	DPT	DH		13.7	1793
Chatham 11 Woodhouse 6-8-III	6694	85.04.16	CLI	345.9	NPW	GP	Thorold, Grimsby	345.9	5703
Chatham 12 Woodhouse 7-8-III	6695	85.04.03	CLI	347.8	NPW	GP	Thorold, Grimsby	347.8	6801
Chatham 13 Woodhouse 3-9-II	6696	85.04.24	CLI	341.4	NPW	GP	Thorold, Grimsby	341.4	6505
Subtotal				6651.5				6315.0	
WELLAND									
Mother III Wainfleet 8-29-IV	6568	85.04.26	CLI	233.2	NPW	GP	Thorold, Grimsby	233.2	358
E. Henderson #1 Wainfleet 30-VII	6779	85.07.31	CLI	182.9	NPW	GP	Grimsby, Whirlpool	182.9	3094
Subtotal				416.1				416.1	
WENTWORTH									
Ace's Dream #1 Binbrook 2-30-IX	6582	85.01.04	CLI	147.8	NPW	GP	Thorold, Whirlpool	147.8	265
Subtotal				147.8				147.8	
Total				106641				103844.1	

CTY: Cochrane TWP: Morrow BLK: TRAC: LOT: CON:
WELL NAME: OGS Onakawana B85 Morrow PERMIT: 6711 INIT CLASS: STR
OPERATOR: Ontario Geological Survey TARGET: CAM CUR STATUS:

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR:	Longyear Canada Inc.			PERMIT:	1985-02-26	NORTH:	m	TOP:	5.5
RIG TYPE:	ROT	DEPTHS		SPUD:	1985-02-28	SOUTH:	m	BOT:	321.0
CABLE TOP:		KB ELEV:	55.4	COMPTD:	1985-03-22	EAST:	m	TRAY:	9172-73
BOT:		LOGGER:		OFFCNF:	1986-03-22	WEST:	m		
ROTRY TOP:	1.4	DRILLER:	321.0	WRKOVR:		LAT:	50-35-25		
BOT:	321.0	DEEP END:		ABNDND:	1985-03-22	LONG:	81-29-10		
DRLG FLD:		PLUG BK:							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM.	WEIGHT	SET AT	HOW SET	RECOV.
117		36.6	SHO	
114		114.0	CEM	102.6

COMPLETION DATA

GAS: 10³m³/d
OIL: m³/d
SIP: kPa
FORM:
INTRVL: m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
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–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

Core chips stored at Petroleum Resources Laboratory. Full diameter core stored at Timmins Core Library MNDM.

INITIAL WATER RECORD

INTERVAL	STAT. LEV.	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO.	ANAL
5.5 – 321.0	COM		
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.4		
DEVONIAN	~~PORT LAMBTON~~ Cretaceous	25.9		
	~~KETTLE POINT~~ Long Rapids	76.8		
	~~HAMILTON~~ Williams Is.	156.2		
	~~MARCELLUS~~ Murray Is.	250.4		
	~~DUNDEE~~ Moose River	265.8		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN	313.8		

GEOLOGY BY: Telford/ Sanderson

CTY Elgin TWP Aldborough BLK: TRAC 2-5 LOT 5 CON IV
WELL NAME CDNOXY RODNEY 1-16 Aldborough 2-5-5-IV PERMIT 6900 INIT CLASS DEV
OPERATOR Canadian Occidental Petroleum Ltd. TARGET DEV CUR STATUS OP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Ron Smith Well Drilling Ltd.			PERMIT	1985-10-16	NORTH	595.6 m	TOP	81.7
RIG TYPE	ROT	DEPTHS		SPUD	1985-10-21	SOUTH	m	BOT	121.9
CABLE TOP		KB ELEV	216.0	COMPTD	1985-10-23	EAST	448.9 m	TRAY	383
BOT		LOGGER		OFFCNF	1985-11-23	WEST	m		
ROTRY TOP	1.1	DRILLER	127.4	WRKOVR		LAT	42-34-41		
BOT	127.4	DEEP END		ABNDND		LONG	81-44-26		
DRLG FLD		PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
139.7	20.8	88.0	CEM	

COMPLETION DATA

GAS 10³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
124.0 – 128.9	PRL	911	Y
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–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	85.0		
	COLUMBUS			
	LUCAS	126.0		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY Elgin	TWP Aldborough	BLK	THAC 1-2	LOT 5	CON V
WELL NAME CDNOXY RODNEY 5-30 Aldborough 1-2-5-V			PERMIT 6901	INIT CLASS DEV	
OPERATOR Canadian Occidental Petroleum Ltd.			TARGET DEV	CUR STATUS OP	

DRILLING DATA

CONTRACTOR	Ron Smith Well Drilling Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	215.0
BOT		LOGGER	
ROTRY TOP	1.7	DRILLER	119.8
BOT	119.8	DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1985-10-16
SPUD	1985-10-18
COMPTD	1985-10-20
OFFCNF	1985-11-20
WRKOVR	
ABNDND	

COORDINATES

NORTH		m
SOUTH	71.2	m
EAST	287.6	m
WEST		m
LAT	42-35-09	
LONG	81-44-36	

SAMPLES

TOP	72.5
BOT	108.2
TRAY	382

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
139.7	20.8	78.0	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF	OPEN HOLE X

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
115.0	Show	

LOGGING RECORD

INTERVAL	TYPE	COMPANY

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
116.0		SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
111.0 - 120.2	PRL	913	Y

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.7		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	70.0		
	COLUMBUS			
	LUCAS	110.0		
	AMHERSTBURG	116.0		
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D.K.Parker

CTY Elgin	TWP Aldborough	BLK	THAC 1-5	LOT 5	CON V
WELL NAME CDN OXY Rodney 6-15 Aldborough 1-5-5-V			PERMIT 6899	INIT CLASS DEV	
OPERATOR Canadian Occidental Petroleum Ltd.			TARGET DEV	CUR STATUS OP	

DRILLING DATA

CONTRACTOR	Ron Smith Well Drilling Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	213.0
BOT		LOGGER	
ROTRY TOP	1.3	DRILLER	123.5
BOT	123.5	DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1985-10-15
SPUD	1985-10-15
COMPTD	1985-10-17
OFFCNF	1985-11-17
WRKOVR	
ABNDND	

COORDINATES

NORTH	519.6	m
SOUTH		m
EAST		m
WEST	2.0	m
LAT	42-34-55	
LONG	81-43-59	

SAMPLES

TOP	
BOT	
TRAY	

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
139.7	21.0	83.0	CEM	

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY

REMARKS

No samples

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
119.0 - 123.2	PRL	912	Y

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	78.0		
	COLUMBUS			
	LUCAS	120.0		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY Elgin	TWP Aldborough	BLK	TRAC 4-5	LOT 15	CON X
WELL NAME C.G. Oil #4 Aldborough 4-5-15-X		PERMIT 6891		INIT CLASS NPW	
OPERATOR C.G. Oil Exploration Inc.		TARGET DEV		CUR STATUS CS-Abd	

DRILLING DATA			
CONTRACTOR	Eagle Drilling Services Inc.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	212.0
BOT		LOGGER	
ROTRY TOP	1.1	DRILLER	117.7
BOT	117.7	DEEP END	
DRLG FLD		PLUG BK	

DATES		COORDINATES			SAMPLES
PERMIT	1985-09-27	NORTH	425.7	m	TOP
SPUD	1985-10-02	SOUTH		m	BOT
COMPTD	1985-10-05	EAST		m	TRAY
OFFCNF	1986-10-05	WEST	64.0	m	
WRKOVR		LAT	42-34-41		
ABNDND	1985-10-06	LONG	81-36-23		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
112.5 – 112.8		Show

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
177.8	112.3		CEM	0.9

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		

REMARKS

No samples

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
116.4 – 116.7		SUL

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	110.3		
	MARCELLUS			
	DUNDEE	111.3		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Elgin	TWP Aldborough	BLK	TRAC 4-7	LOT 15	CON XII
WELL NAME Smith Aldborough 4-7-15-XII		PERMIT 6671		INIT CLASS DEV	
OPERATOR Ron Smith Well Drilling LTd.		TARGET DEV		CUR STATUS OS-ABD	

DRILLING DATA			
CONTRACTOR	Ron Smith Drilling LTd.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	0.5	KB ELEV	205.3
BOT	109.0	LOGGER	
ROTRY TOP		DRILLER	109.0
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES		COORDINATES			SAMPLES
PERMIT	1985-07-11	NORTH	91.4	m	TOP 101.0
SPUD	1985-08-21	SOUTH		m	BOT 116.1
COMPTD	1985-08-27	EAST	239.8	m	TRAY 1842
OFFCNF	1985-09-27	WEST		m	
WRKOVR		LAT	42-33-16		
ABNDND	1985-12-02	LONG	81-34-59		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
139.7		101.8	CEM	83.2

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
103.6 – 105.2		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
106.7 – 108.2	5.5	SUL.

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	82.9		
	MARCELLU			
	DUNDE	101.2		
	COLU			
	LUC			
	AM RSTBURG			
	YLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY	Elgin	TWP	Aldborough	BLK		TRAC	1	LOT	15	CON	XIII
WELL NAME	Eagle #5 Aldborough 1-15-XIII					PERMIT	6727	INIT CLASS	NPW		
OPERATOR	Marko Maletin					TARGET	DEV	CUR STATUS	OS-Abd		

DRILLING DATA

CONTRACTOR	Newport, Lorne T.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	0.3	KB ELEV	200.8
BOT	106.1	LOGGER	
ROTRY TOP		DRILLER	106.1
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1985-04-04
SPUD	1985-05-20
COMPTD	1985-06-13
OFFCNF	1986-06-13
WRKOVR	
ABNDND	1985-06-17

COORDINATES

NORTH		m
SOUTH	62.0	m
EAST		m
WEST	62.0	m
LAT	42-33-19	
LONG	81-34-44	

SAMPLES

TOP	78.0
BOT	106.1
TRAY	266

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
83.8 –	Show	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
177.8		78.0	SHO	68.0

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
105.8 – 106.1	Show	

LOGGING RECORD

INTERVAL	TYPE	COMPANY

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
76.2 – 78.0		FRE
105.8 – 106.1	30.5	FRE

CORING RECORD

INTERVAL	LOCATION	NO	[illegible]

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	78.0		
	MARCELLUS			
	DUNDEE	92.4		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY	Elgin	TWP	Aldborough	BLK		TRAC	2	LOT	17	CON	XIII
WELL NAME	Cons et al 33830 Aldborough 2-17 XIII					PERMIT	6735	INIT CLASS	DEV		
OPERATOR	The Consumers' Gas Company Ltd.					TARGET	DEV	CUR STATUS	OP		

DRILLING DATA

CONTRACTOR	Eagle Drilling Services Inc.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	205.5
BOT		LOGGER	108.4
ROTRY TOP	1.0	DRILLER	108.4
BOT	108.4	DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1985-04-23
SPUD	1985-04-23
COMPTD	1985-04-26
OFFCNF	1985-05-26
WRKOVR	
ABNDND	1986-02-16

COORDINATES

NORTH		m
SOUTH	97.2	m
EAST	226.3	m
WEST		m
LAT	42-33-38	
LONG	81-34-14	

SAMPLES

TOP	73.5
BOT	108.2
TRAY	299

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
107.9 – 108.1	Show	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.8	80.6	CEM	
60.3	7.0	104.8	HAN	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM	Dundee	
INTRVL	107.9 - 108.4	m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
107.9 – 108.1		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 106.2	GRNL	Computalog
80.0 – 108.2	DENL	"

REMARKS

Production Tests
Test #1 Recovered 6.2M³ of fluid of which 1.1m³ was oil
Test #2 Recovered 5.4 M³ of fluid of which 1.0M³ was oil
Test #3 Recovered 4.5 M³ of fluid of which 0.6M³ was oil.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
107.9 – 108.1		

CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
95.7 – 108.2	PRL	879	N

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	74.1		
	MARCELLUS			
	DUNDEE	95.4		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Elgin TWP Aldborough BLK - TRAC - LOT 20 CON XI
WELL NAME Gogama No. 1 Aldborough 2-7-20-XI PERMIT 6820 INIT CLASS NPW
OPERATOR Gogama Resources Inc. TARGET DEV CUR STATUS DH-ABD

DRILLING DATA

CONTRACTOR Eagle Drilling Services Inc.
RIG TYPE ROT
CABLE TOP
BOT
ROTRY TOP 1.0
BOT 161.5
DRLG FLD WATER

DEPTHS
KB ELEV 210.9
LOGGER 161.5
DRILLER 161.5
DEEP END -
PLUG BK -

DATES

PERMIT 85-06-13
SPUD 85-06-13
COMPTD 85-06-19
OFFCNF 86-06-19
WRKOVR
ABNDND 85-10-20

COORDINATES

NORTH 249.1 m
SOUTH - m
EAST 65.2 m
WEST - m
LAT 42-35-03
LONG 81-34-19

SAMPLES

TOP 97.0
BOT 158.5
TRAY 376

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178.0	25.3	96.9	CEM	0
139.7	20.8	104.5	SHO	104.5

COMPLETION DATA

GAS 10 ³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF [ ] OPEN HOLE [ ]

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
-		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
1.0 - 159.1	GRL	COM
93.3 - 160.3	NEUT	"
103.6 - 160.9	DENL	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
97.5 - -	-	SUL
160.0 - -	-	SUL

CORING RECORD

INTERVAL	LOCATION	NO	mm
-			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	99.6		
	MARCELLUS			
	DUNDEE	106.1		
	COLUMBUS			
	LUCAS	157.0		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T.R.Carter

CTY ELGIN TWP Aldborough BLK TRAC LOT 20 CON XII
WELL NAME Gogama No. 3, Aldborough 2-3-20-XII PERMIT 6672 INIT CLASS NPW
OPERATOR Gogama Resources Inc. TARGET DEV CUR STATUS DH-ABD

DRILLING DATA

CONTRACTOR Eagle Drilling Services Inc.
RIG TYPE ROT
CABLE TOP
BOT
ROTRY TOP 1.3
BOT 164.6
DRLG FLD

DEPTHS
KB ELEV 211.5
LOGGER 164.0
DRILLER 164.6
DEEP END
PLUG BK

DATES

PERMIT 1985-07-11
SPUD 1985-07-23
COMPTD 1985-07-26
OFFCNF 1985-07-26
WRKOVR
ABNDND 1988-11-24

COORDINATES

NORTH m
SOUTH 456 m
EAST 61 m
WEST m
LAT 42-34-45
LONG 81-33-57

SAMPLES

TOP 94.0
BOT 164.6
TRAY 258

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	95.7	CEM	
139.7	20.8	100.6	SHO	

COMPLETION DATA

GAS 10 ³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF [ ] OPEN HOLE [ ]

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
-		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
1.3 - 161.8	GRL	Computalog
100.6 - 163.7	NEUT	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
56.0 -		FRE

CORING RECORD

INTERVAL	LOCATION	NO	mm
-			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	100.8		
	MARCELLUS			
	DUNDEE	108.2		
	COLUMBUS			
	LUCAS	161.5		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T.R. Carter

CTY	Elgin	TWP	Aldborough	BLK	-	TRAC	5	LOT 23	CON B.F.
WELL NAME	Brett, Aldborough 8-23-B.F.			PERMIT	6823	INIT CLASS	NPW		
OPERATOR	H. Brett & Associates Limited			TARGET	SAL	CUR STATUS	Lost-ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Bothwell Drilling & Servicing Ltd.			PERMIT	85-06-25	NORTH	112.3	m	TOP	-
RIG TYPE	ROT	DEPTHS		SPUD	85-06-17	SOUTH	-	m	BOT	-
CABLE TOP	-	KB ELEV	210.0	COMPTD	85-06-24	EAST	-	m	TRAY	-
BOT	-	LOGGER	-	OFFCNF	85-06-24	WEST	129.9	m		
ROTRY TOP	1.6	DRILLER	97.5	WRKOVR	-	LAT	-			
BOT	97.5	DEEP END	-	ABNDND	85-06-26	LONG	-			
DRLG FLD	-	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	-	5.8	CEM	0
178	29.8	62.5	CEM	0

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF [ ]	OPEN HOLE [ ]

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
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–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK					
	KB / LAKE LEVEL	0			SILURIAN	A2 ANHYDRITE			
	DRIFT / LAKE BOTTOM	1.6				A1 CARBONATE			
DEVONIAN	PORT LAMBTON					A1 SALT			
	KETTLE POINT					A1 ANHYDRITE			
	HAMILTON					GUELPH			
	MARCELLUS					ERAMOSA			
	DUNDEE					GOAT ISLAND			
	COLUMBUS					GASPORT/WARTON			
	LUCAS					DECEW			
	AMHERSTBURG					ROCHESTER			
	SYLVANIA					IRONDEQUOIT			
	BOIS BLANC					REYNALES/FOSSIL HILL			
	SPRINGVALE					THOROLD			
	ORISKANY					GRIMSBY			
SILURIAN	BASS ISLANDS					CABOT HEAD			
	G SHALE					MANITOULIN			
	F SHALE					WHIRLPOOL			
	F SALT				ORDOVICIAN	QUEENSTON			
	E CARBONATE					BLUE MOUNTAIN GEORG BAY			
	D SALT/EQUIVALENT					COLLINGWOOD			
	C SHALE					COBOURG			
	B MARKER					VERULAM			
	B EQUIVALENT					KIRKFIELD			
	B SALT					COBOCONK			
	B ANHYDRITE					GULL RIVER			
	A2 CARBONATE					SHADOW LAKE			
	A2 SALT					CAMBRIAN			
						PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY	Elgin	TWP	Aldborough	BLK	-	TRAC	8	LOT 23	CON BF
WELL NAME	Brett Aldborough 8-23-BF			PERMIT	6823a	INIT CLASS	NPW		
OPERATOR	H. Brett & Associates			TARGET	SAL	CUR STATUS	OP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Bothwell Drilling Servicing Ltd.			PERMIT	85-06-25	NORTH	115.5	m	TOP	70.0
RIG TYPE	ROT	DEPTHS		SPUD	85-06-27	SOUTH	-	m	BOT	447.1
CABLE TOP	-	KB ELEV	210.0	COMPTD	85-08-30	EAST	-	m	TRAY	5561
BOT	-	LOGGER	-	OFFCNF	85-08-30	WEST	129.94	m		
ROTRY TOP	1.6	DRILLER	449.0	WRKOVR		LAT	42-40-27			
BOT	449.0	DEEP END	-	ABNDND		LONG	81-40-45			
DRLG FLD	-	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
442.6 – -	Show	-
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	48.7	66.8	SHO	0
178	29.8	82.9	CEM	0
114	15.6	442.0	CEM	0

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF [ ]	OPEN HOLE [ ]

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
442.6 – 444.1	Show	844.8
447.1 – 449.0	Show	-
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

No operator picks.
No logs.
Anhydrite in Lucas.
No samples through
pay zone.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
449.0 – -	30.5	SAL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK					
	KB / LAKE LEVEL	0			SILURIAN	A2 ANHYDRITE			
	DRIFT / LAKE BOTTOM	1.6				A1 CARBONATE	438.0		
DEVONIAN	PORT LAMBTON					A1 SALT			
	KETTLE POINT					A1 ANHYDRITE			
	HAMILTON	79.0				GUELPH			
	MARCELLUS					ERAMOSA			
	DUNDEE	119.0				GOAT ISLAND			
	COLUMBUS	149.0				GASPORT/WARTON			
	LUCAS	161.0				DECEW			
	AMHERSTBURG	216.0				ROCHESTER			
	SYLVANIA					IRONDEQUOIT			
	BOIS BLANC	244.0				REYNALES/FOSSIL HILL			
	SPRINGVALE					THOROLD			
	ORISKANY					GRIMSBY			
SILURIAN	BASS ISLANDS	271.0				CABOT HEAD			
	G SHALE	298.0				MANITOULIN			
	F SHALE	311.0				WHIRLPOOL			
	F SALT				ORDOVICIAN	QUEENSTON			
	E CARBONATE	350.0				BLUE MOUNTAIN GEORG BAY			
	D SALT/EQUIVALENT					COLLINGWOOD			
	C SHALE	379.0				COBOURG			
	B MARKER	396.0				VERULAM			
	B EQUIVALENT					KIRKFIELD			
	B SALT					COBOCONK			
	B ANHYDRITE	407.0				GULL RIVER			
	A2 CARBONATE	408.0				SHADOW LAKE			
	A2 SALT					CAMBRIAN			
						PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY Elgin	TWP Aldborough	BLK	TRAC 4-2	LOT 23	CON XIII
WELL NAME Cnockaert #1 Aldborough 4-2-23-XIII			PERMIT 6813	INIT CLASS NPW	
OPERATOR Cnockaert, Andre M.			TARGET DEV	CUR STATUS DH-ABD	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Eagle Drilling Services Inc.			PERMIT	1985-06-13	NORTH		m	TOP	88.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-06-20	SOUTH	250.1	m	BOT	161.5
CABLE TOP		KB ELEV	209.1	COMPTD	1985-06-24	EAST	229.8	m	TRAY	1846
BOT		LOGGER		OFFCNF	1985-06-24	WEST		m		
ROTRY TOP	1.2	DRILLER	161.5	WRKOVR		LAT	42-34-57			
BOT	161.5	DEEP END		ABNDND	1985-06-25	LONG	81-32-14			
DRLG FLD		PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178		89.0	CEM	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		
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–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
157.0 – 161.5		SUL
–		
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–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	83.8		
	MARCELLUS			
	DUNDEE	104.3		
	COLUMBUS			
	LUCAS	134.0		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY Elgin	TWP Southwold	BLK	TRAC 1	LOT 27	CON NTR
WELL NAME Denison #1, Southwold 1-27 NTR			PERMIT 6878	INIT CLASS NPW	
OPERATOR Denison Mines Limited			TARGET CAM	CUR STATUS OS-ABD	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Bailey Geological Services			PERMIT	1985-08-29	NORTH		m	TOP	90
RIG TYPE	ROT	DEPTHS		SPUD	1985-08-28	SOUTH	87.2	m	BOT	1119
CABLE TOP		KB ELEV	222.0	COMPTD	1985-09-06	EAST	108.2	m	TRAY	9095-9096
BOT		LOGGER	1116.5	OFFCNF	1986-09-06	WEST		m		
ROTRY TOP	3.1	DRILLER	1119.0	WRKOVR		LAT	42-45-02			
BOT	1119.0	DEEP END		ABNDND		LONG	81-18-09			
DRLG FLD		PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
339.7	90.9	101.6	CEM	
244.5	53.7	509.0	CEM	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
97.0 –		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
95.5 – 511.5	DIL	Schlumberger
95.5 – 1104.4	NGRS	"
100.0 – 1112.7	SONL	"
95.5 – 1115.5	GRL	"
95.5 – 1109.0	CNL	"
95.5 – 1115.5	LDT	"
498.0 – 1112.0	LATL	"
498.0-1115	MSFL	"

REMARKS

Unable to pick from 107.0 to 155.0 due to finely ground samples.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
92.0 –	20	BRA
153.0 –		BRA
1091.0 –		SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	97.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC	201.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	223.0		
	G SHALE	238.6		
	F SHALE	246.1		
	F SALT			
	E CARBONATE	286.3		
	D SALT/EQUIVALENT			
	C SHALE	310.4		
	B MARKER	319.0		
	B EQUIVALENT	325.7		
	B SALT			
	B ANHYDRITE	333.8		
	A2 CARBONATE	334.9		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	352.9		
	A1 CARBONATE	356.7		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	371.0		
	ERAMOSA			
	GOAT ISLAND	387.2		
	GASPORT/WIARTON	436.4		
	DECEW			
	ROCHESTER	443.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD	462.5		
	MANITOULIN	487.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	495.4		
	BLUE MOUNTAIN - GEORG BAY	647.4		
	COLLINGWOOD			
	COBOURG	826.7		
	VERULAM			
	KIRKFIELD			
	COBOCONK	968.0		
	GULL RIVER			
	SHADOW LAKE	1072.5		
	CAMBRIAN	1082.0		
	PRECAMBRIAN	1100.0		

GEOLOGY BY T. R. Carter

CTY	Essex	TWP	Anderdon	BLK	-	TRAC	2	LOT	4
CON	VIII								
WELL NAME	Lucas No. 3 Anderdon 2-4-VIII			PERMIT	6952	INIT CLASS	STR		
OPERATOR	Ministry of Natural Resources			TARGET	DEV	CUR STATUS			

DRILLING DATA			
CONTRACTOR	Eagle Drilling Services Inc.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	184.7
BOT	-	LOGGER	-
ROTRY TOP	1.1	DRILLER	30.6
BOT	30.6	DEEP END	-
DRLG FLD	-	PLUG BK	-

DATES		COORDINATES			SAMPLES	
PERMIT	85-12-10	NORTH	-	m	TOP	7.6
SPUD	85-12-09	SOUTH	194.4	m	BOT	30.3
COMPTD	85-12-10	EAST	-	m	TRAY	374
OFFCNF	86-12-10	WEST	152.8	m		
WRKOVR	-	LAT	42-07-38			
ABNDND	85-12-10	LONG	82-58-23			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
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–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	-	8.6	SHOE	8.6

COMPLETION DATA

GAS 10³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

Operator measured sample depths from ground elevation.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
20.9 – -	-	FRE
30.0 – -		FRE
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	
7.6 – 30.6	PRL	881	N
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–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	8.6		
	COLUMBUS	24.5		
	LUCAS	28.0		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY	Essex	TWP	Anderdon	BLK		TRAC		LOT	34
CON	I								
WELL NAME	Allied Chemical E-8 Anderdon 34-1			PERMIT	6840	INIT CLASS	SM		
OPERATOR	Allied Chemical Canada Limited			TARGET	SAL	CUR STATUS	SM		

DRILLING DATA			
CONTRACTOR	Bothwell Drilling & Servicing Ltd		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	178.5
BOT		LOGGER	384.4
ROTRY TOP	2.2	DRILLER	384.4
BOT	384.4	DEEP END	
DRLG FLD		PLUG BK	382.5

DATES		COORDINATES			SAMPLES	
PERMIT	1985-08-08	NORTH	15.9	m	TOP	15.0
SPUD	1985-08-12	SOUTH		m	BOT	381.0
COMPTD	1985-08-29	EAST		m	TRAY	8010
OFFCNF	1986-08-29	WEST	804.1	m		
WRKOVR		LAT	42-10-16			
ABNDND		LONG	83-05-39			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273.1	60.27	35.1	CEM	
177.8	25.3	311.5	CEM	
114.3	15.63		PAC	

COMPLETION DATA

GAS 10³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 381.9	GRNL	Computalog
311.5 – 384.1	DENL	"
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
19.2 – 23.2		FRE
26.2 – 37.8		SUL
67.1 – 73.8		SUL
165.2 – 168.9		SUL
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	5.0		
	AMHERSTBURG	48.3		
	SYLVANIA	69.2		
	BOIS BLANC	100.9		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	130.8		
	G SHALE	191.3		
	F SHALE	196.6		
	F SALT			
	E CARBONATE	221.6		
	D SALT/EQUIVALENT			
	C SHALE	273.4		
	B MARKER	293.5		
	B EQUIVALENT			
	B SALT	314.9		
	B ANHYDRITE	370.3		
	A2 CARBONATE	372.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY	Essex	TWP	Anderdon	BLK	
TRAC		LOT	34	CON	1
WELL NAME	Allied Chem. E-1 Anderdon 34-1	PERMIT	6839	INIT CLASS	SM
OPERATOR	Allied Chemical	TARGET	SAL	CUR STATUS	SM

DRILLING DATA

CONTRACTOR	Bothwell Drilling & Servicing Ltd	DEPTHS	
RIG TYPE	ROT	KB ELEV	178.5
CABLE TOP		LOGGER	375.8
BOT		DRILLER	376.4
ROTRY TOP	1.9	DEEP END	
BOT	376.4	PLUG BK	375.8
DRLG FLD			

DATES		COORDINATES			SAMPLES	
PERMIT	1985-08-08	NORTH	15.5	m	TOP	31.0
SPUD	1985-09-04	SOUTH		m	BOT	374.9
COMPTD	1985-10-05	EAST		m	TRAY	7806
OFFCNF	1986-10-05	WEST	712.6	m		
WRKOVR		LAT	42-10-16			
ABNDND		LONG	83-05-35			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
339.7	77.4	4.3	CEM	
273.1	62.5	28.7	CEM	
177.8	25.3	309.7	CEM	
114.3	15.6	363.9	PAC	

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
.9 – 313.3	SONL	Computalog
45.7 – 182.9	TMPL	"
1.2 – 373.7	CRNL	"
311.2 – 375.2	DENL	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
18.9 – 27.1	6.1	FRE
33.8 – 39.3		SUL
70.7 – 75.6	–	SUL
164.0 – 167.0		SUL

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	17.1		
	AMHERSTBURG	43.0		
	SYLVANIA	70.7		
	BOIS BLANC	101.8		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	130.1		
	G SHALE	190.5		
	F SHALE	195.7		
	F SALT			
	E CARBONATE	222.2		
	D SALT/EQUIVALENT			
	C SHALE	273.4		
	B MARKER	292.9		
	B EQUIVALENT			
	B SALT	314.7		
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY	Essex	TWP	Colchester South	BLK	–
TRAC	I	LOT	11	CON	V
WELL NAME	Lucas No. 2 Colchester S. I-11-V	PERMIT	6951	INIT CLASS	STR
OPERATOR	Ministry of Natural Resources	TARGET	DEV	CUR STATUS	–

DRILLING DATA

CONTRACTOR	Eagle Drilling Services Inc.	DEPTHS	
RIG TYPE	ROT	KB ELEV	186.6
CABLE TOP	–	LOGGER	–
BOT	–	DRILLER	29.7
ROTRY TOP	1.1	DEEP END	–
BOT	29.7	PLUG BK	–
DRLG FLD	–		

DATES		COORDINATES			SAMPLES	
PERMIT	85-12-10	NORTH	–	m	TOP	15.8
SPUD	85-12-11	SOUTH	86.1	m	BOT	29.6
COMPTD	85-12-12	EAST	–	m	TRAY	396
OFFCNF	86-12-12	WEST	196.6	m		
WRKOVR	–	LAT	42-04-29.5			
ABNDND	85-12-12	LONG	82-53-47.0			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	–	15.2	SHOE	15.2

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		

REMARKS

Operator measured sample depths from ground elevation.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
13.1 – –	–	FRE
21.3 – –	–	SUL

CORING RECORD

INTERVAL	LOCATION	NO	mm
15.8 – 29.7	PRL	882	N

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	14.1		
	COLUMBUS	25.5		
	LUCAS	26.0		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY	Essex	TWP	Mersea	BLK		TRAC	2	LOT	4	CON	VII
WELL NAME	Cons et al 34013 Mersea 2-4-VII			PERMIT	6896			INIT CLASS	NPW		
OPERATOR	The Consumers' Gas Company Ltd.			TARGET	ORD			CUR STATUS	DH- ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1985-10-15	NORTH		m	TOP	50.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-11-01	SOUTH	167.6	m	BOT	1066.0
CABLE TOP		KB ELEV	198.7	COMPTD	1985-11-08	EAST	195.0	m	TRAY	6856
BOT		LOGGER	1067.4	OFFCNF	1986-11-08	WEST		m		6857
ROTRY TOP	2.2	DRILLER	1069.0	WRKOVR		LAT	42-07-14			
BOT	1069.0	DEEP END		ABNOND	1985-11-09	LONG	82-36-53			
DRLG FLD	Fresh Water	PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	46.5	CEM	
178	30.0	510.5	CEM	163.0

COMPLETION DATA

GAS		$10^3 m^3/d$
OIL		m^3/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
37.0 – 1063.0	SONL	Schlumberger
37.0 – 1060.7	CNFD	"
514.5 – 1062.8	LATL	"
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
176.0 – 184.0		SUL
418.0 – 426.0		SAL
1034.0 –		SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	35.0		
	COLUMBUS			
	LUCAS	51.4		
	AMHERSTBURG	84.7		
	SYLVANIA			
	BOIS BLANC	107.2		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	155.8		
	G SHALE	198.4		
	F SHALE	205.4		
	F SALT			
	E CARBONATE	235.2		
	D SALT/EQUIVALENT	269.2		
	C SHALE	274.5		
	B MARKER	298.3		
	B EQUIVALENT	304.8		
	B SALT			
	B ANHYDRITE	314.4		
	A2 CARBONATE	321.7		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	338.5		
	A1 CARBONATE	345.8		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	352.3		
	ERAMOSA			
	GOAT ISLAND	427.0		
	GASPORT/WIARTON	452.0		
	DECEW			
	ROCHESTER	482.7		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	488.8		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	492.4		
	MANITOULIN	528.8		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	542.4		
	BLUE MOUNTAIN - GEORG BAY	630.2		
	COLLINGWOOD			
	COBOURG	766.3		
	VERULAM	787.3		
	KIRKFIELD	832.4		
	COBOCONK	872.8		
	GULL RIVER	901.4		
	SHADOW LAKE	1016.7		
	CAMBRIAN	1020.5		
	PRECAMBRIAN	1049.8		

GEOLOGY BY D.K. Parker

CTY	Essex	TWP	Mersea	BLK	-	TRAC	8	LOT	4	CON	VIII
WELL NAME	Cons et al 34014 Mersea 8-4-VIII			PERMIT	6894			INIT CLASS	NPW		
OPERATOR	The Consumers Gas Company Ltd.			TARGET	SAL			CUR STATUS	O.S.-ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Charles G Stevenson Drilling Ltd.			PERMIT	85-10-15	NORTH	211.2	m	TOP	33.0
RIG TYPE	CABLE	DEPTHS		SPUD	85-11-01	SOUTH	-	m	BOT	381.0
CABLE TOP	1.3	KB ELEV	195.1	COMPTD	85-12-03	EAST	-	m	TRAY	7324
BOT	381.0	LOGGER	380.0	OFFCNF	85-12-03	WEST	195.1	m		
ROTRY TOP	-	DRILLER	381.0	WRKOVR		LAT	42-07-27			
BOT	-	DEEP END	-	ABNOND	86-03-08	LONG	82-36-42			
DRLG FLD	-	PLUG BK	377.0							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
315.0 – 317.0	-	-
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	50.0	30.8	SHO	30.8
219	36.0	48.0	CEM	
178	30.0	218.2	CEM	
114	14.1	377.1	CEM	

COMPLETION DATA

GAS		$10^3 m^3/d$
OIL		m^3/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
341.0 – 343.0	-	-
348.0 – 349.0	.06	-
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
30.0 379.2	CNFD	SCH
216.5 379.2	DLLM	"
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
41.0 – 44.0	-	FRE
50.0 – 52.0	-	SUL
173.0 – 176.0	-	SUL
343.0 – 350.0	448.0	SUL
353.0 – 356.0	60.0	SUL
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	32.5		
	COLUMBUS			
	LUCAS	52.8		
	AMHERSTBURG	84.5		
	SYLVANIA			
	BOIS BLANC	107.6		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	149.3		
	G SHALE	192.4		
	F SHALE	199.4		
	F SALT			
	E CARBONATE	229.7		
	D SALT/EQUIVALENT	263.2		
	C SHALE	268.5		
	B MARKER	289.5		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	305.0		
	A2 CARBONATE	310.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	329.0		
	A1 CARBONATE	335.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	341.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY	Essex	TWP	Mersea	BLK	-	TRAC	7	LOT	6	CON	IV
WELL NAME	Lucas No. 1 Mersea 7-6-IV			PERMIT	6950			INIT CLASS	STR		
OPERATOR	Ministry of Natural Resources			TARGET	DEV			CUR STATUS	-		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Eagle Drilling Services Ltd.			PERMIT	85-12-10	NORTH	299.2	m	TOP	20.0
RIG TYPE	ROT	DEPTHS		SPUD	85-12-13	SOUTH	-	m	BOT	32.1
CABLE TOP	-	KB ELEV	189.1	COMPTD	85-12-13	EAST	-	m	TRAY	1889
BOT	-	LOGGER	-	OFFCNF	86-12-13	WEST	539.5	m		
ROTRY TOP	1.0	DRILLER	32.1	WRKOVR	-	LAT	42-04-22.5			
BOT	32.1	DEEP END	-	ABNDND	85-12-14	LONG	82-36-17			
DRLG FLD	-	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	-	20.0	SHO	20.0

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF [ ]		OPEN HOLE [ ]

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
21.9 -	-	-
26.5 - 31.4	SHOW	-
A		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
-		

REMARKS

Operator measured sample depths from ground elevation.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
21.9 - -	-	FRE

CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
20.0 - 32.1	PRI.	883	N

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	21.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY	Essex	TWP	Mersea	BLK		TRAC	1	LOT	10	CON	1
WELL NAME	Cons et al 34100 Mersea 1-10-1			PERMIT	6895			INIT CLASS	DEV		
OPERATOR	The Consumers' Gas Company Ltd.			TARGET	ORD			CUR STATUS	OP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1985-10-15	NORTH		m	TOP	55.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-10-16	SOUTH	109.5	m	BOT	869.0
CABLE TOP		KB ELEV	180.4	COMPTD	1985-10-29	EAST		m	TRAY	6854
BOT		LOGGER	870.6	OFFCNF	1985-11-29	WEST	107.0	m		6855
ROTRY TOP	2.2	DRILLER	870.0	WRKOVR		LAT	42-02-39			
BOT	870.0	DEEP END		ABNDND		LONG	82-34-19			
DRLG FLD	Brine	PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	53.0	CEM	
178	29.8	759.2	CEM	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM	Cobourg	
INTRVL	779.0-789.8	m
		m
		m
PERF [ ]		OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
771.0 - 791.0	Show	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
25.5 - 862.2	CNFD	Schlumberger
725.0 - 795.8	CMPL	"
759.0 - 870.2	DLLM	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
133.0 -		SUL
154.0 -		SUL
771.0 - 791.0		SAL

CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
-			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	20.0		
	COLUMBUS			
	LUCAS	48.6		
	AMHERSTBURG	70.0		
	SYLVANIA			
	BOIS BLANC	107.8		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	129.4		
	G SHALE	172.0		
	F SHALE	179.7		
	F SALT			
	E CARBONATE	209.0		
	D SALT/EQUIVALENT	241.0		
	C SHALE	245.0		
	B MARKER	261.7		
	B EQUIVALENT	266.7		
	B SALT			
	B ANHYDRITE	275.8		
	A2 CARBONATE	282.8		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	304.2		
	A1 CARBONATE	305.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	310.5		
	ERAMOSA			
	GOAT ISLAND	406.0		
	GASPORT/WIARTON	425.8		
	DECEW			
	ROCHESTER	465.8		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	472.2		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	476.3		
	MANITOULIN	515.1		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	525.5		
	BLUE MOUNTAIN - GEORG BAY	613.2		
	COLLINGWOOD			
	COBOURG	761.7		
	VERULAM	776.5		
	KIRKFIELD	822.0		
	COBOCONK	859.4		
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY	Essex	TWP	Mersea	BLK	-
TRAC	1	LOT	11	CON	I
WELL NAME	Cons et al 34102 Mersea 1-11-I	PERMIT	6897	INIT CLASS	DEV
OPERATOR	The Consumers' Gas Company Ltd.	TARGET	ORD	CUR STATUS	OP

DRILLING DATA

CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	181.1
BOT	-	LOGGER	1059.0
ROTRY TOP	2.2	DRILLER	1060.0
BOT	1060.0	DEEPEND	-
DRLG FLD	BRINE	PLUG BK	1053.0

DATES		COORDINATES			SAMPLES	
PERMIT	85-10-15	NORTH	-	m	TOP	53.0
SPUD	85-11-11	SOUTH	240.0	m	BOT	1060.0
COMPTD	85-11-18	EAST	-	m	TRAY	6860- 6861
OFFCNF	85-12-18	WEST	195.0	m		
WRKOVR		LAT	42-02-34			
ABNDND		LONG	82-33-57			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
767.0 - 780.0	Show	-
796.0 - 813.0	Show	-
820.0 - 826.0	Show	-

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	48.2	CEM	0
178	30.0	470.7	CEM	0
114	14.0	1053.3	CEM	0
60	7.0	792.0	HAN	-

COMPLETION DATA

GAS	-	10 ³m³/d
OIL	-	m³/d
SIP	-	kPa
FORM	Cobourg	
INTRVL	788-791	m
		m
		m
PERF x	OPEN HOLE	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
767.0 - 780.0	-	-
796.0 - 813.5	-	-
820.0 - 826.0	-	-

LOGGING RECORD

INTERVAL	TYPE	COMPANY
466.5 - 1055.2	DLLM	SCH
790.0 - 866.0	CMPL	"
749.0 - 1001.0	NCRS	"
749.0 - 995.0	SYRG	"
38.5 - 1050.4	CNFD	"

REMARKS

Deviation Survey --
106.0 m - ½°
189m - ½° 286m - 3/4°
388m - 1° 444m - ½°
549m - ½° 642m - 1½°
697m - 1° 752m - 1½°
808m 3/4° 911m - 1°
1014m - 3/4°
Gas, Water, and Oil Analyses on file.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
75.0 - -	-	SUL
126.0 - -	-	SUL
135.0 - -	-	SUL
308.0 - -	-	SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANA

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	36.0		
	COLUMBUS			
	LUCAS	57.2		
	AMHERSTBURG	69.7		
	SYLVANIA			
	BOIS BLANC	101.6		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	124.6		
	G SHALE	169.4		
	F SHALE	176.6		
	F SALT			
	E CARBONATE	206.0		
	D SALT/EQUIVALENT	238.4		
	C SHALE	242.7		
	B MARKER	258.0		
	B EQUIVALENT	263.5		
	B SALT			
	B ANHYDRITE	272.5		
	A2 CARBONATE	279.4		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	296.8		
	A1 CARBONATE	297.7		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	306.7		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	467.4		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	472.2		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	477.8		
	MANITOULIN	516.3		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	526.7		
	BLUE MOUNTAIN GEORG BAY	612.1		
	COLLINGWOOD			
	COBOURG	765.8		
	VERULAM	791.0		
	KIRKFIELD	819.5		
	COBOCONK	856.0		
	GULL RIVER	884.7		
	SHADOW LAKE	996.1		
	CAMBRIAN	998.5		
	PRECAMBRIAN	1043.4		

GEOLOGY BY Debra K. Parker

CTY	Essex	TWP	Mersea	BLK	
TRAC	5	LOT	11	CON	I
WELL NAME	Cons et al 33822 Mersea 5-11-I	PERMIT	6825	INIT CLASS	DEV
OPERATOR	The Consumers Gas Co. Ltd.	TARGET	ORD	CUR STATUS	OP

DRILLING DATA

CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	179.1
BOT		LOGGER	
ROTRY TOP	2.2	DRILLER	1020.0
BOT	1020.0	DEEP END	
DRLG FLD	Brine	PLUG BK	1016.1

DATES		COORDINATES			SAMPLES	
PERMIT	1985-06-25	NORTH	493.4	m	TOP	50.0
SPUD	1985-06-27	SOUTH		m	BOT	1011.0
COMPTD	1985-07-14	EAST		m	TRAY	9078 9079
OFFCNF	1985-08-14	WEST	112.9	m		
WRKOVR		LAT	42-02-12			
ABNDND		LONG	82-33-55			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
768.0 - 782.0	SHOW	7531
783.0 - 795.0	NGTS	7816
832.0 - 838.0	NGTS	
910.0 - 920.0	NGTS	936

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
299	54.0	47.6	CEM	
218	35.6	481.8	CEM	
140	20.8	1016.1	CEM	
60	7.0	764.1	HAN	

COMPLETION DATA

GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM	Cobourg	
INTRVL	769.0-780.0	m
		m
		m
PERF	OPEN HOLE	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
768.0 - 782.0		
783.0 - 795.0	NOTS	
832.0 - 838.0	NOTS	
910.0 - 920.0	NOTS	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
10.0 1019.0	CNFD	Schlumberger
49.0 1018.4	LATL	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
70.0 -		FRE
78.0 -		SUL
153.0 - 173.0		SUL
314.0 - 341.0		SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANA
758.0 796.0	PRL	910	Y

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	17.0		
	COLUMBUS			
	LUCAS	53.7		
	AMHERSTBURG	75.0		
	SYLVANIA			
	BOIS BLANC	110.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	135.8		
	G SHALE	176.8		
	F SHALE	184.2		
	F SALT			
	E CARBONATE	213.4		
	D SALT/EQUIVALENT	246.0		
	C SHALE	251.4		
	B MARKER	266.2		
	B EQUIVALENT	271.7		
	B SALT			
	B ANHYDRITE	280.5		
	A2 CARBONATE	287.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	305.6		
	A1 CARBONATE	307.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	313.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	465.8		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	471.8		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	476.8		
	MANITOULIN	515.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	525.2		
	BLUE MOUNTAIN GEORG BAY	612.3		
	COLLINGWOOD			
	COBOURG	762.8		
	VERULAM	779.0		
	KIRKFIELD	820.9		
	COBOCONK	855.2		
	GULL RIVER	819.4		
	SHADOW LAKE	991.0		
	CAMBRIAN	994.0		
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY	Essex	TWP	Mersea	BLK		TRAC	1
						LOT	12
						CON	A
WELL NAME	Cons et al 33823 Mersea 1-12-A	PERMIT	6826	INIT CLASS	DEV		
OPERATOR	The Consumers' Gas Company Ltd.	TARGET	ORD	CUR STATUS	OP		

DRILLING DATA			
CONTRACTOR	Corunna Petroleum Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	180.9
BOT		LOGGER	1013.5
ROTRY TOP	3.6	DRILLER	1015.0
BOT	1015.0	DEEP END	
DRLG FLD	Brine	PLUG BK	1013.5

DATES	
PERMIT	1985-06-25
SPUD	1985-06-27
COMPTD	1985-07-19
OFFCNF	1985-08-19
WRKOVR	
ABNDND	

COORDINATES		
NORTH		m
SOUTH	234.0	m
EAST		m
WEST	113.0	m
LAT	42-01-47	
LONG	82-33-31	

SAMPLES	
TOP	50.0
BOT	1015.0
TRAY	9105
	9106

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
779.5 - 792.0		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
299	62.5	40.0	CEM	
220	35.7	483.0	CEM	
140	20.8	1010.3	CEM	
60	7.0	774.9	HAN	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
845.0 - 966.5	CMPL	Schlumberger
45.0 - 1009.0	LATL	"
12.0 - 1012.6	CNFD	"
470.0 - 968.0	CBVD	"
483.0 - 966.5	CBND	"

CORING RECORD

INTERVAL	LOCATION	NO	
764.0 - 824.0	CCF	909	Y

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM	Cobourg-Verulam	
INTRVL	779.5-792.0	m
		m
		m
PERF [X]	OPEN HOLE [ ]	

REMARKS

Deviation survey done 2 plugs at 85 m. at lost circulation using 40 and 80 sacks of cement respectively.

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	20.0		
	COLUMBUS			
	LUCAS	53.7		
	AMHERSTBURG	75.0		
	SYLVANIA			
	BOIS BLANC	96.2		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	135.4		
	G SHALE	183.2		
	F SHALE	190.5		
	F SALT			
	E CARBONATE	215.0		
	D SALT/EQUIVALENT			
	C SHALE	259.0		
	B MARKER	271.7		
	B EQUIVALENT	277.9		
	B SALT			
	B ANHYDRITE	287.8		
	A2 CARBONATE	295.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	312.0		
	A1 CARBONATE	317.8		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	324.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	467.2		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	473.0		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	477.4		
	MANITOULIN	515.8		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	525.2		
	BLUE MOUNTAIN - GEORG BAY	610.2		
	COLLINGWOOD			
	COBOURG	764.8		
	VERULAM	786.0		
	KIRKFIELD	826.8		
	COBOCONK	878.9		
	GULL RIVER	899.6		
	SHADOW LAKE	995.6		
	CAMBRIAN	998.9		
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY	Essex	TWP	Mersea	BLK		TRAC	3
						LOT	12
						CON	I
WELL NAME	Cons et al 33821 Mersea 3-12-I	PERMIT	6669	INIT CLASS	DEV		
OPERATOR	The Consumers Gas Company Ltd.	TARGET	ORD	CUR STATUS	OP		

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	180.4
BOT		LOGGER	1016.1
ROTRY TOP	1.8	DRILLER	1018.0
BOT	1018.0	DEEP END	
DRLG FLD		PLUG BK	

DATES	
PERMIT	1985-01-28
SPUD	1985-01-29
COMPTD	1985-02-18
OFFCNF	1985-03-18
WRKOVR	
ABNDND	

COORDINATES		
NORTH		m
SOUTH	560.0	m
EAST		m
WEST	195.0	m
LAT	42-01-23	
LONG	82-33-42	

SAMPLES	
TOP	40.0
BOT	1018.0
TRAY	9886
	9888

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
777.5 - 793.0	293	7629
861.5 - 878.0	0.134	8688
941.5 - 958.0	0.109	6880

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
777.5 - 793.0	SHOW	
793.0 - 818.0	SHOW	
860.0 - 878.0	SHOW	
940.0 - 958.0	SHOW	

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
130.0 -		SUL
348.0 - 400.0		SAL
861.5 - 878.0		SAL

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	54.5	35.5	CEM	
244	54.0	481.5	CEM	
178	30.0	1011.7	CEM	
60	7.0	801.3	HAN	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
26.5 - 1006.4	CNFD	Schlumberger
750.0 - 1017.5	DIPM	"
26.0 - 1007.2	SONL	"
32.0 - 1012.2	DLLM	"
9.0 - 986.0	CBVD	"
750.0 - 1010.0	CBLK	"

CORING RECORD

INTERVAL	LOCATION	NO	
764.0 - 818.0	PRL	907	Y
860.0 - 878.0			Y
940.0 - 958.0			Y

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM	Cobourg-Verulam	
INTRVL	778.5 to	m
	797.0	m
		m
PERF [ ]	OPEN HOLE [ ]	

REMARKS

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	15.0		
	COLUMBUS			
	LUCAS	43.7		
	AMHERSTBURG	68.7		
	SYLVANIA			
	BOIS BLANC	86.4		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	132.1		
	G SHALE	173.4		
	F SHALE	180.8		
	F SALT			
	E CARBONATE	206.0		
	D SALT/EQUIVALENT			
	C SHALE	250.0		
	B MARKER	262.4		
	B EQUIVALENT	268.5		
	B SALT			
	B ANHYDRITE	277.7		
	A2 CARBONATE	283.1		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	302.0		
	A1 CARBONATE	303.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	312.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON	364.2		
	DECEW			
	ROCHESTER	465.7		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	471.7		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	475.8		
	MANITOULIN	515.4		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	525.5		
	BLUE MOUNTAIN - GEORG BAY	612.0		
	COLLINGWOOD			
	COBOURG	766.5		
	VERULAM	789.6		
	KIRKFIELD	822.2		
	COBOCONK	861.6		
	GULL RIVER	893.4		
	SHADOW LAKE	998.2		
	CAMBRIAN	1001.2		
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY	Essex	TWP	Mersea	BLK		THAC	5
WELL NAME	Cons et al 33960 Mersea 5-12-I			PERMIT	6732	LOT	12
OPERATOR	The Consumers Gas Company Ltd			TARGET	SAL	CON	I
						INIT CLASS	BD
						CUR STATUS	

DRILLING DATA

CONTRACTOR	Eagle Drilling Services Inc.	DEPTHS	
RIG TYPE	ROT & CAB	KB ELEV	179.5
CABLE TOP		LOGGER	167.8
BOT		DRILLER	170.0
ROTRY TOP		DEEP END	
BOT		PLUG BK	
DRLG FLD			

DATES		COORDINATES			SAMPLES	
PERMIT	1985-05-08	NORTH	658.3	m	TOP	32.5
SPUD	1985-04-11	SOUTH		m	BOT	170.0
COMPTD	1985-04-21	EAST		m	TRAY	262
OFFCNF	1986-04-21	WEST	165.3	m		
WRKOVR		LAT	42-02-17			
ABNDND		LONG	82-33-56			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	29.8	30.6	CEM	
114	14.4	113.8	CEM	
60.3	7.0	112.9	HAN	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
PERF ☐	OPEN HOLE ☒	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
6.2 – 119.8	CBND	Computalog
1.3 – 165.7	GRNL	"
115.0 – 167.8	DENL	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
57.0 – 58.0		SUL
123.0 – 124.0		SAL
138.5 – 142.8		SAL
148.5 – 150.0		SAL
157.0 – 161.0		SAL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	17.2		
	COLUMBUS			
	LUCAS	45.3		
	AMHERSTBURG	69.2		
	SYLVANIA			
	BOIS BLANC	90.3		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	126.6		
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parler

CTY	Essex	TWP	Mersea	BLK		THAC	
WELL NAME	Consumers et al 33824 Mersea 5-13-A			PERMIT	6831	LOT	13
OPERATOR	The Consumers' Gas Co- Ltd.			TARGET	ORD	CON	A
						INIT CLASS	DEV
						CUR STATUS	OP-

DRILLING DATA

CONTRACTOR	Underwater Gas Developers Ltd.	DEPTHS	
RIG TYPE	ROT	KB ELEV	178.9
CABLE TOP		LOGGER	1013.5
BOT		DRILLER	1015.0
ROTRY TOP	2.2	DEEP END	
BOT	1015.0	PLUG BK	1009.8
DRLG FLD			

DATES		COORDINATES			SAMPLES	
PERMIT	1985-06-26	NORTH	545.0	m	TOP	56
SPUD	1985-07-30	SOUTH		m	BOT	1015
COMPTD	1985-08-07	EAST		m	TRAY	6850-51
OFFCNF	1985-09-06	WEST	120.0	m		
WRKOVR		LAT	42-01-26			
ABNDND		LONG	82-33-05			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
299	62.5	47.3	CEM	
220	35.7	478.7	CEM	
140	20.8	1009.8	CEM	
60	7.0	790.0	HAN	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM	Verulam	
INTRVL	774.0-789.5	m
PERF ☒	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
832.5 – 849.5		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
835.0 – 905.0	RFT	Schlumberger
35.0 – 1003.5	GRL	"
35.0 – 1006.0	CNL	"
47.0 – 1012.5	LDT	"
479.0 – 1008.0	LATL	"
479.0 – 1012.0	MSFL	"
466.0 – 935.0	CBND	"

REMARKS

466.0 - 935.0 CBVD "

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
72.0 –		
145.0 –		
154.0 –		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	24.0		
	COLUMBUS			
	LUCAS	51.2		
	AMHERSTBURG	77.0		
	SYLVANIA			
	BOIS BLANC	116.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	131.0		
	G SHALE	174.0		
	F SHALE	181.5		
	F SALT			
	E CARBONATE	220.9		
	D SALT/EQUIVALENT			
	C SHALE	248.8		
	B MARKER	264.0		
	B EQUIVALENT	269.5		
	B SALT			
	B ANHYDRITE	279.0		
	A2 CARBONATE	286.1		
	A2 SALT	301.0		
SILURIAN	A2 ANHYDRITE	302.0		
	A1 CARBONATE	305.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	312.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON	369.0		
	DECEW			
	ROCHESTER	461.4		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	467.5		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	471.5		
	MANITOULIN	511.3		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	521.0		
	BLUE MOUNTAIN GEORG BAY	605.4		
	COLLINGWOOD			
	COBOURG	762.7		
	VERULAM	768.0		
	KIRKFIELD	790.2		
	COBOCONK	855.6		
	GULL RIVER	883.4		
	SHADOW LAKE	993.6		
CAMBRIAN		997.0		
PRECAMBRIAN				

GEOLOGY BY T.R. Carter

CTY	Essex	TWP	Mersea	BLK		TRAC	7	LOT	13
CON	I								
WELL NAME	Cons et al 33826 Mersea 7-13-1	PERMIT	6833	INIT CLASS	DEV				
OPERATOR	The Consumers' Gas Company Ltd.	TARGET	ORD	CUR STATUS	OP				

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	180.6
BOT		LOGGER	1064.0
ROTHY TOP	2.2	DRILLER	1065.0
BOT	1065.0	DEEP END	
DRLG FLD	BRINE	PLUG BK	1060.2

DATES	
PERMIT	1985-06-26
SPUD	1985-08-12
COMPTD	1985-08-26
OFFCNF	1985-09-26
WRKOVR	
ABNDND	

COORDINATES		
NORTH	300.0	m
SOUTH		m
EAST	168.0	m
WEST		m
LAT	42-02-04	
LONG	82-33-15	

SAMPLES	
TOP	43.0
BOT	1066.0
TRAY	9115 9116

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
299	62.5	43.1	CEM	
220	35.7	479.8	CEM	
140	20.8	1060.2	CEM	
60	7.0	781.4	HAN	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM	Cobourg-Verulam	
INTRVL	782.3-792.4	m
		m
		m
PERF ☒		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
782.3 – 792.4		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
473.0 – 1057.5	SONL	Schlumberger
39.0 – 1062.1	DLLM	"
11.0 – 1054.0	CNFD	"
448.0 – 1038.1	CBND	"
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
63.0 –		FRE
149.0 –		SUL
320.0 –		SUL
848.0 851.0		SAL
863.0 866.0		SAL
925.0 930.0		SAL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	21.7		
	COLUMBUS			
	LUCAS	49.6		
	AMHERSTBURG	70.0		
	SYLVANIA			
	BOIS BLANC	104.4		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	127.7		
	G SHALE	176.0		
	F SHALE	183.0		
	F SALT			
	E CARBONATE	212.7		
	D SALT/EQUIVALENT	245.1		
	C SHALE	251.0		
	B MARKER	263.8		
	B EQUIVALENT	269.3		
	B SALT			
	B ANHYDRITE	278.5		
	A2 CARBONATE	285.9		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	302.0		
	A1 CARBONATE	308.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	322.1		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	464.1		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	469.8		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	474.2		
	MANITOULIN	512.4		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	522.5		
	BLUE MOUNTAIN GEORG BAY	607.6		
	COLLINGWOOD			
	COBOURG	763.8		
	VERULAM	787.0		
	KIRKFIELD	819.4		
	COBOCONK	863.1		
	GULL RIVER	889.3		
	SHADOW LAKE	1000.8		
CAMBRIAN		1004.0		
PRECAMBRIAN		1048.1		

GEOLOGY BY D. K. Parker

CTY	Essex	TWP	Mersea	BLK		TRAC	7	LOT	14
CON	A								
WELL NAME	Cons et al 33825 Mersea 7-14-A	PERMIT	6832	INIT CLASS	DEV				
OPERATOR	The Consumers' Gas Company Ltd.	TARGET	ORD	CUR STATUS	OP				

DRILLING DATA			
CONTRACTOR	Corunna Drilling Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	180.3
BOT		LOGGER	792.0
ROTHY TOP	3.7	DRILLER	791.3
BOT	791.3	DEEP END	
DRLG FLD		PLUG BK	

DATES	
PERMIT	1985-06-25
SPUD	1985-07-26
COMPTD	1985-08-08
OFFCNF	1985-09-08
WRKOVR	
ABNDND	

COORDINATES		
NORTH	320.0	m
SOUTH		m
EAST	107.0	m
WEST		m
LAT	42-01-18	
LONG	82-32-57	

SAMPLES	
TOP	42.0
BOT	790.0
TRAY	9109- 9110

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
299	62.5	40.0	CEM	
220	35.7	470.0	CEM	
140	20.8	772.1	CEM	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM	Cobourg-Verulam	
INTRVL	770.3-790.5	m
		m
		m
PERF ☐		OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
770.3 – 790.5		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
450.0 – 789.5	CNFD	Computalog
208.0 – 746.2	CBVD	Schlumberger
18.0 – 446.0	CNFD	"
–		
–		
–		
–		

REMARKS

Core is missing for 780.4-786.0 interval

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
55.0 –		FRE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
764.0 – 790.5	PRL	908	Y
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.7		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	24.0		
	COLUMBUS			
	LUCAS	52.4		
	AMHERSTBURG	67.5		
	SYLVANIA			
	BOIS BLANC	88.4		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	127.2		
	G SHALE	167.4		
	F SHALE	175.0		
	F SALT			
	E CARBONATE	203.8		
	D SALT/EQUIVALENT	236.2		
	C SHALE	241.8		
	B MARKER	257.2		
	B EQUIVALENT	265.0		
	B SALT			
	B ANHYDRITE	272.2		
	A2 CARBONATE	279.1		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	294.4		
	A1 CARBONATE	297.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	302.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	465.2		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	473.4		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	477.0		
	MANITOULIN	515.8		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	525.7		
	BLUE MOUNTAIN - GEORG BAY	610.4		
	COLLINGWOOD			
	COBOURG	770.3		
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY	Essex	TWP	Mersea	BLK	-	TRAC	6	LOT	15	CON	8
WELL NAME	Domego Terron #1 Mersea 6-15-B			PERMIT	6942			INIT CLASS	NPW		
OPERATOR	Domego Resources Ltd.			TARGET	ORD			CUR STATUS	DH		

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	178.6
BOT	-	LOGGER	1059.5
ROTRY TOP	3.0	DRILLER	1058.0
BOT	1058.0	DEEP END	-
DRLG FLD	BRINE	PLUG BK	-

DATES	
PERMIT	85-11-28
SPUD	85-12-07
COMPTD	85-12-16
OFFCNF	86-12-16
WHKOVR	-
ABNDND	-

COORDINATES		
NORTH	589.4	m
SOUTH	-	m
EAST	195.1	m
WEST	-	m
LAT	42-00-41	
LONG	82-32-28	

SAMPLES	
TOP	48.0
BOT	1059.0
TRAY	6846 - 6847

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	47.0	CEM	0
178	30.0	471.0	CEM	0

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
-		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
29.0 - 1050.0	CNFD	SCH

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
70.0 - =	=	FRE
145.0 - =	=	SUL

CORING RECORD

INTERVAL	LOCATION	NO	Abd
-			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	54.2		
	AMHERSTBURG	67.4		
	SYLVANIA			
	BOIS BLANC	101.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	116.0		
	G SHALE	159.0		
	F SHALE	166.3		
	F SALT			
	E CARBONATE	195.2		
	D SALT/EQUIVALENT	226.2		
	C SHALE	230.8		
	B MARKER	251.2		
	B EQUIVALENT	257.0		
	B SALT			
	B ANHYDRITE	266.2		
	A2 CARBONATE	272.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	290.2		
	A1 CARBONATE	293.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	300.4		
	ERAMOSA			
	GOAT ISLAND	371.3		
	GASPORT/WIARTON	388.5		
	DECEW			
	ROCHESTER	455.5		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	461.3		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	465.3		
	MANITOULIN	503.2		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	513.4		
	BLUE MOUNTAIN · GEORG BAY	598.6		
	COLLINGWOOD			
	COBOURG	755.0		
	VERULAM	777.0		
	KIRKFIELD	816.5		
	COBOCONK	853.7		
	GULL RIVER	883.0		
	SHADOW LAKE	998.2		
	CAMBRIAN	1001.4		
	PRECAMBRIAN	1049.0		

GEOLOGY BY Debra K. Parker

CTY	Essex	TWP	Mersea	BLK		TRAC	6	LOT	23	CON	VII
WELL NAME	Cons et al 34012 Mersea 6-23-VII			PERMIT	6935			INIT CLASS	NPW		
OPERATOR	The Consumers' Gas Company Ltd.			TARGET	ORD			CUR STATUS	OP		

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	185.5
BOT		LOGGER	
ROTRY TOP	2.2	DRILLER	1090.0
BOT	1090.0	DEEP END	
DRLG FLD		PLUG BK	

DATES	
PERMIT	1985-11-19
SPUD	1985-11-23
COMPTD	1985-11-29
OFFCNF	1986-11-29
WRKOVR	1986-03-24
ABNDND	

COORDINATES		
NORTH		m
SOUTH	760.6	m
EAST	195.0	m
WEST		m
LAT	42-06-41	
LONG	82-28-28	

SAMPLES	
TOP	59.0
BOT	1090.0
TRAY	9123-9124

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
803.0 - 855.0	Show	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	52.1	CEM	
178	29.8	514.7	CEM	
114	14.0	1087.8	CEM	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM	Cobourg/Verulam	
INTRVL	810.0-840.3	m
		m
		m
PERF ☒	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
821.0 - 855.0	Show	
879.0 - 883.0	Show	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
785.0 - 1085.0	NGRS	Schlumberger
19.0 - 993.1	CBVD	"
45.0 - 508.8	SONL	"
783.6 - 1081.5	SONL	"
785.0 - 1073.0	SYRG	"
10.0 - 995.5	CNFD	"

REMARKS

Lost circulation zone at 879.0m Deviation survey 105 m - 1°, 202 m - 3/4°, 248 m - 3/4°, 350 m - 3/4°, 453 m - 1°, 518 m - 3/4° 607 m - 1°, 715 m - 11/8° 818m - 1/2°
Total of 15.1 m³ of acid used in stimulation.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
90.0 -		SUL
184.0 -		SUL
363.0 -		SUL
855.0 -		SAL

CORING RECORD

INTERVAL	LOCATION	NO	Abd
-			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	35.1		
	COLUMBUS			
	LUCAS	76.8		
	AMHERSTBURG	99.0		
	SYLVANIA			
	BOIS BLANC	136.3		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	159.0		
	G SHALE	216.7		
	F SHALE	224.0		
	F SALT			
	E CARBONATE	254.0		
	D SALT/EQUIVALENT	287.4		
	C SHALE	292.8		
	B MARKER	312.3		
	B EQUIVALENT	318.0		
	B SALT			
	B ANHYDRITE	326.6		
	A2 CARBONATE	333.4		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	350.0		
	A1 CARBONATE	354.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	359.2		
	ERAMOSA			
	GOAT ISLAND	441.2		
	GASPORT/WIARTON	496.4		
	DECEW			
	ROCHESTER	500.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	507.0		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	510.2		
	MANITOULIN	549.2		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	559.3		
	BLUE MOUNTAIN · GEORG BAY	648.2		
	COLLINGWOOD			
	COBOURG	801.4		
	VERULAM	822.3		
	KIRKFIELD	863.4		
	COBOCONK	901.5		
	GULL RIVER	933.2		
	SHADOW LAKE	1034.4		
	CAMBRIAN	1036.2		
	PRECAMBRIAN	1070.3		

GEOLOGY BY D.K. Parker

CTY Grey	TWP Keppel	BLK	TRAC 2	LOT 22	CON II
WELL NAME Forbes #1 Keppel 22-11			PERMIT 6737	INIT CLASS DPT	
OPERATOR J.E. English General Drilling & Well			TARGET ORD	CUR STATUS DH- - ABD	

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	J.E. English General Drilling			PERMIT	1985-05-08	NORTH	256.0 m	TOP	15.0
RIG TYPE	CAB	DEPTHS		SPUD	1985-07-04	SOUTH	m	BOT	451.4
CABLE TOP	1.0	KB ELEV	241.0	COMPTD	1985-08-09	EAST	161.8 m	TRAY	6465
BOT	451.5	LOGGER		OFFCNF	1986-08-09	WEST	m		
ROTRY TOP		DRILLER	451.5	WRKOVR		LAT	44-37-34		
BOT		DEEP END		ABNDND	1985-08-19	LONG	81-05-30		
DRLG FLD		PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219.0		5.2	SHO	5.2
178.0		87.4	CEM	76.2

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY

REMARKS

Permit #5895 in 1982-
Permit #6331 in 1983-
suspended
Permit #6737 in 1985-
completed & deepened
& abandoned

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
9.0 –		FRE
21.0 –		FRE

CORING RECORD

INTERVAL	LOCATION	NO	REC

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	~~ROCHESTER~~ Lions Head	36.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	48.0		
	THOROLD			
	GRIMSBY Dyer Bay	56.4		
	CABOT HEAD	61.0		
	MANITOULIN	94.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	106.0		
	BLUE MOUNTAIN GEORG BAY	143.0		
	COLLINGWOOD			
	COBOURG	311.7		
	VERULAM	344.0		
	KIRKFIELD	369.0		
	COBOCONK	429.8		
	GULL RIVER	434.8		
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY Haldimand	TWP Moulton	BLK -	TRAC 4	LOT 3	CON III LE
WELL NAME Zicari #1 Moulton 4-3-III L.E.			PERMIT 6847	INIT CLASS DEV	
OPERATOR Leo Zicari			TARGET CLI	CUR STATUS GP	

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Montgomery Bros.			PERMIT	85-08-13	NORTH	94.9 m	TOP	44.2
RIG TYPE	CAB	DEPTHS		SPUD	85-09-03	SOUTH	- m	BOT	237.7
CABLE TOP	0.3	KB ELEV	176.5	COMPTD	85-11-21	EAST	109.7 m	TRAY	347
BOT	237.7	LOGGER	-	OFFCNF	85-12-21	WEST	- m		
ROTRY TOP	-	DRILLER	237.7	WRKOVR	-	LAT	42-53-53		
BOT	-	DEEP END	-	ABNDND	-	LONG	79-28-08		
DRLG FLD	-	PLUG BK	-						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
97.5 – -	-	-
150.9 – -	-	-
189.0 – 190.2	-	276
198.7 – 203.6	-	621
206.0 – 209.4	-	-
231.6 – -	-	-

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	44.8	PAC	0
114	17.3	177.4	BHP	0

COMPLETION DATA

GAS	1.133	10³m³/d
OIL	-	m³/d
SIP	1138	kPa
FORM	Grimsby	
INTRVL	206.7 - 209.4	m
		m
		m
PERF ☐		OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY

REMARKS

Salina picks are uncertain.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
41.5 – -	10.7	BRA
57.9 – -	3.1	SUL
127.7 – -	2.4	SUL
143.3 – -	2.4	SUL

CORING RECORD

INTERVAL	LOCATION	NO	REC

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE	44.2		
	D SALT/EQUIVALENT			
	C SHALE	59.4		
	B MARKER	68.6		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	86.9		
	A2 CARBONATE	89.9		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	104.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	168.5		
	ROCHESTER	172.2		
	IRONDEQUOIT	189.0		
	REYNALES/FOSSIL HILL	193.6		
	THOROLD	196.6		
	GRIMSBY	197.6		
	CABOT HEAD	215.0		
	MANITOULIN			
	WHIRLPOOL	228.0		
ORDOVICIAN	QUEENSTON	232.8		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY	Haldimand	TWP	Seneca	BLK	-	TRAC	1
LOT	3	CON	I.WPR				
WELL NAME	Varga 1, Seneca 1-3-I,WPR	PERMIT	7070	INIT CLASS	NPW		
OPERATOR	Joe Varga	TARGET	CLI	CUR STATUS	DH-ABD		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Varga Brothers			PERMIT	86-11-07	NORTH	- m	TOP	-
RIG TYPE	CAB	DEPTHS		SPUD	85-12-09	SOUTH	127.1 m	BOT	-
CABLE TOP	0	KB ELEV	210.5	COMPTD	85-12-31	EAST	- m	TRAY	-
BOT	155.8	LOGGER	-	OFFCNF	86-12-31	WEST	143.6 m		
ROTRY TOP	-	DRILLER	155.8	WHKOVR	-	LAT	43-06-20		
BOT	-	DEEP END	-	ABNDND	87-01-07	LONG	79-56-21		
DRLG FLD	-	PLUG BK	-						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
121.9 – -	-	-
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–		
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–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	25.3	21.3	BAR	21.3
114	14.1	114.6	PAC	114.6

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
51.8 – 53.3	9.1	BLK
79.2 – 81.7	9.1	BLK
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	-		
	DRIFT / LAKE BOTTOM	0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE	21.3		
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	39.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	108.2		
	IRONDEQUOIT	120.1		
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY	129.8		
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL	153.9		
ORDOVICIAN	QUEENSTON	155.8		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T.R. Carter

CTY	Huron	TWP	Stephen	BLK		TRAC	I
LOT	13	CON	XI				
WELL NAME	D & L No. 1 Stephen 1-13-XI	PERMIT	6612	INIT CLASS	NPW		
OPERATOR	D & L Oil Company Ltd.	TARGET	SAL	CUR STATUS	DH-ABD		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Wellington Newport & Sons Ltd.			PERMIT	1984-10-26	NORTH	106.7 m	TOP	34.0
RIG TYPE	CAB	DEPTHS		SPUD	1984-12-01	SOUTH	m	BOT	551.7
CABLE TOP	1.0	KB ELEV	248.7	COMPTD	1985-07-10	EAST	m	TRAY	6210
BOT	552.0	LOGGER		OFFCNF	1986-07-10	WEST	250.8 m		
ROTRY TOP		DRILLER	552.0	WHKOVR		LAT	43-18-05		
BOT		DEEP END		ABNDND	1985-08-19	LONG	81-36-14		
DRLG FLD		PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.3	34.0	SHO	34.0
219	35.7	40.0	SHO	40.0
178	29.8	250.0	CEM	201.0

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
77.0 –	18.0	FRE
277.0 –		
548.6 –		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	34.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	155.0		
	SYLVANIA			
	BOIS BLANC	201.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	213.0		
	G SHALE	250.0		
	F SHALE	259.0		
	F SALT			
	E CARBONATE	311.0		
	D SALT/EQUIVALENT	323.0		
	C SHALE	335.0		
	B MARKER	341.0		
	B EQUIVALENT			
	B SALT	357.0		
	B ANHYDRITE			
	A2 CARBONATE	442.0		
	A2 SALT	488.6		
SILURIAN	A2 ANHYDRITE	499.9		
	A1 CARBONATE	501.8		
	A1 SALT			
	A1 ANHYDRITE	536.0		
	GUELPH	537.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Kent	**TWP** Camden	**BLK**	**TRAC** 3	**LOT** 5	**CON** XIII
WELL NAME Cons et al 33980 Camden 3-5-XIII Gore			**PERMIT** 6886	**INIT CLASS** NPW	
OPERATOR The Consumers' Gas Company Ltd.			**TARGET** ORD	**CUR STATUS** DH-ABD	

DRILLING DATA

CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	190.5
BOT		LOGGER	1227.5
ROTRY TOP	2.2	DRILLER	
BOT	1228.5	DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1985-09-16
SPUD	1985-09-17
COMPTD	1985-09-25
OFFCNF	1986-09-25
WRKOVR	
ABNDND	1985-09-27

COORDINATES

NORTH		m
SOUTH	109.7	m
EAST		m
WEST	475.5	m
LAT	42-35-45	
LONG	82-02-03	

SAMPLES

TOP	105.0
BOT	1227.0
TRAY	6844 6845

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	102.8	CEM	
178	29.6	670.9	CEM	315.0

COMPLETION DATA

GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
103.5 – 1223.0	DLLM	Schlumberger
92.5 – 1226.5	CNFD	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
130.0 –		SUL
140.0 –		SUL
274.0		SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	46.0		
	MARCELLUS			
	DUNDEE	86.2		
	COLUMBUS			
	LUCAS	122.0		
	AMHERSTBURG	185.7		
	SYLVANIA			
	BOIS BLANC	210.5		
	SPRINGVALE			
	ORISKANY	249.1		
SILURIAN	BASS ISLANDS	283.7		
	G SHALE	369.2		
	F SHALE	375.7		
	F SALT			
	E CARBONATE	401.0		
	D SALT/EQUIVALENT	442.5		
	C SHALE	446.0		
	B MARKER	459.4		
	B EQUIVALENT	465.5		
	B SALT	468.5		
	B ANHYDRITE			
	A2 CARBONATE	522.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	554.3		
	A1 CARBONATE	557.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	574.2		
	ERAMOSA			
	GOAT ISLAND	595.0		
	GASPORT/WIARTON	627.2		
	DECEW			
	ROCHESTER	639.9		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD	666.2		
	MANITOULIN	689.7		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	699.7		
	BLUE MOUNTAIN - GEORG BAY	806.5		
	COLLINGWOOD			
	COBOURG	952.8		
	VERULAM	998.8		
	KIRKFIELD	1047.2		
	COBOCONK	1090.2		
	GULL RIVER	1112.8		
	SHADOW LAKE	1198.8		
CAMBRIAN		1199.5		
PRECAMBRIAN		1201.2		

GEOLOGY BY D. K. Parker

CTY Kent	**TWP** Chatham	**BLK**	**TRAC** 1	**LOT** 10	**CON** XIII
WELL NAME Francisco-Ewing Chatham 1-10-XIII			**PERMIT** 6664	**INIT CLASS** DEV	
OPERATOR Francisco Petroleum Enterprises Inc.			**TARGET** SAL	**CUR STATUS** OP	

DRILLING DATA

CONTRACTOR	Rawlings Drilling Co. Ltd.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.2	KB ELEV	179.5
BOT	537.1	LOGGER	537.1
ROTRY TOP		DRILLER	537.1
BOT		DEEP END	
DRLG FLD	O/W	PLUG BK	500.0

DATES

PERMIT	1984-12-18
SPUD	1985-01-14
COMPTD	1985-03-27
OFFCNF	1985-04-27
WRKOVR	
ABNDND	

COORDINATES

NORTH		m
SOUTH	116.05	m
EAST		m
WEST	106.82	m
LAT	42-33-50	
LONG	82-16-59	

SAMPLES

TOP	19.0
BOT	537.1
TRAY	354

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
330	81.1	4.57	SHO	
273	60.3	21.9	SHO	
219	35.7	140.8	SHO	
178	29.8	349.0	PAC	
139.7	20.8	486.5	PAC	

COMPLETION DATA

GAS		10 ³m³/d
OIL	1.1	m³/d
SIP		kPa
FORM	AZ-A1	
INTRVL	486.5 - 500.0	m
		m
		m
PERF ☐	OPEN HOLE ☒	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
492.3 –	1.3	

LOGGING RECORD

INTERVAL	TYPE	COMPANY
413.3 – 524.6	GRNL	Computalog
486.5 – 526.7	DENL	"
486.5 – 526.1	GRDL	"

REMARKS

Py in Kettle Point/Hamilton contact. Authigenic quartz in A1 Anhydrite at Hamilton/Dundee contact.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
18.3 –	6.1	FRE
157.0 –	45.7	SUL
461.8 – 464.5		SAL
533.7 – 537.1		SAL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	18.6		
	HAMILTON	84.0		
	MARCELLUS			
	DUNDEE	140.0		
	COLUMBUS	177.0		
	LUCAS	186.0		
	AMHERSTBURG	234.0		
	SYLVANIA			
	BOIS BLANC	270.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	296.5		
	G SHALE	340.0		
	F SHALE	348.0		
	F SALT			
	E CARBONATE	376.5		
	D SALT/EQUIVALENT	415.7		
	C SHALE	417.9		
	B MARKER	431.9		
	B EQUIVALENT	437.7		
	B SALT			
	B ANHYDRITE	445.0		
	A2 CARBONATE	450.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	490.1		
	A1 CARBONATE	492.6		
	A1 SALT			
	A1 ANHYDRITE	528.0		
	GUELPH	530.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. Carter

CTY	Kent	TWP	Chatham	BLK		TRAC	2	LOT	12	CON	XII
WELL NAME	Francisco et al Chatham 2-12-XII					PERMIT	6738	INIT CLASS	DEV		
OPERATOR	Francisco Petroleum Enterprises Inc.					TARGET	SAL	CUR STATUS	DH-ABD		

DRILLING DATA

CONTRACTOR	Rawlings Drilling Co. Ltd.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.4	KB ELEV	179.4
BOT	522.0	LOGGER	
ROTRY TOP		DRILLER	522.0
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1985-05-06
SPUD	1985-05-21
COMPTD	1985-06-24
OFFCNF	1985-07-24
WRKOVR	
ABNDND	1985-07-05

COORDINATES

NORTH		m
SOUTH	107.0	m
EAST	107.0	m
WEST		m
LAT	42-33-34	
LONG	82-15-45	

SAMPLES

TOP	17.0
BOT	521.8
TRAY	5975

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273.1		19.8	SHO	19.8
219.1		144.8	SHO	144.8
177.8		350.5	PAC	340.8

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m

PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
518.2 –	Show	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
16.8 – 18.3		FRE
160.0 –	30.5	SUL
518.2 –		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	18.2		
	HAMILTON	80.0		
	MARCELLUS			
	DUNDEE	135.0		
	COLUMBUS	156.0		
	LUCAS	162.0		
	AMHERSTBURG	223.0		
	SYLVANIA			
	BOIS BLANC	255.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	286.0		
	G SHALE	329.7		
	F SHALE	336.0		
	F SALT			
	E CARBONATE	369.0		
	D SALT/EQUIVALENT			
	C SHALE	409.6		
	B MARKER	427.0		
	B EQUIVALENT	430.0		
	B SALT			
	B ANHYDRITE	439.0		
	A2 CARBONATE	445.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	478.0		
	A1 CARBONATE	482.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	512.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY	Kent	TWP	Chatham	BLK		TRAC	2	LOT	12	CON	XII
WELL NAME	Francisco et al #3 Chatham 2-12-XII					PERMIT	6675	INIT CLASS	NPW		
OPERATOR	Francisco Petroleum Enterprises Inc.					TARGET	SAL	CUR STATUS	DH ABD		

DRILLING DATA

CONTRACTOR	Rawlings Drilling Co. Ltd.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.2	KB ELEV	179.8
BOT	518.2	LOGGER	
ROTRY TOP		DRILLER	518.2
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1985-07-19
SPUD	1985-08-01
COMPTD	1985-10-08
OFFCNF	1986-10-08
WRKOVR	
ABNDND	1985-10-11

COORDINATES

NORTH		m
SOUTH	167.6	m
EAST	286.5	m
WEST		m
LAT	42-33-36	
LONG	82-15-36	

SAMPLES

TOP	17.0
BOT	518.2
TRAY	8167

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273.1	60.3	18.6	SHO	18.6
219.1	35.7	141.1	SHO	141.1
177.8	29.8	342.9	PAC	333.5

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m

PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
160.0 –	609.9	SUL
518.2 –	121.9	SAL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	16.8		
	HAMILTON	80.6		
	MARCELLUS			
	DUNDEE	137.0		
	COLUMBUS			
	LUCAS	180.0		
	AMHERSTBURG	227.0		
	SYLVANIA			
	BOIS BLANC	262.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	290.4		
	G SHALE	329.0		
	F SHALE	334.0		
	F SALT			
	E CARBONATE	367.0		
	D SALT/EQUIVALENT	408.1		
	C SHALE	413.5		
	B MARKER	426.0		
	B EQUIVALENT	429.0		
	B SALT			
	B ANHYDRITE	441.7		
	A2 CARBONATE	445.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	480.0		
	A1 CARBONATE	482.3		
	A1 SALT			
	A1 ANHYDRITE	512.7		
	GUELPH	515.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D.K.Parker

CTY Kent	TWP Dover	BLK -	TRAC 6	LOT 5	CON IIE
WELL NAME	Vanroboy #2 Dover 6-5-IIE	PERMIT	6905	INIT CLASS	DPT
OPERATOR	Marvan #2	TARGET	ORD	CUR STATUS	OP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Stevenson Drilling			PERMIT	85-10-22	NORTH	- m	TOP	-
RIG TYPE	CAB	DEPTHS		SPUD	85-07-24	SOUTH	677.9 m	BOT	-
CABLE TOP	997.9	KB ELEV	178.0	COMPTD	85-07-26	EAST	76.2 m	TRAY	-
BOT	1014.4	LOGGER	-	OFFCNF	86-07-26	WEST	- m		
ROTRY TOP	-	DRILLER	1014.4	WRKOVR	-	LAT	- 42-21-06		
BOT	-	DEEP END	1014.4	ABNDND	-	LONG	- 82-19-29		
DRLG FLD	-	PLUG BK	978.4						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
168.3	29.8	876.6	SHO	0
114	14.9	986.3	CEM	0
60	7.0	972.3	-	-

COMPLETION DATA

GAS	-	10 ³m³/d
OIL	1.9	m³/d
SIP	-	kPa
FORM	Kirkfield	
INTRVL	971.7 - 975.4	m
		m
		m
PERF ☒	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
911.4 – 976.0	CRL	COM
911.4 – 978.4	NEUT	"
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REMARKS

Deepening of Prairie Gas No. 6 from 997.0 to 1014.4. No samples or logs for new interval.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK	992.1		
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY Kent	TWP Dover	BLK	TRAC 4	LOT 6	CON IV E
WELL NAME	Rowe/Ram #8A Dover 4-6-IVE	PERMIT	6658	INIT CLASS	DEV
OPERATOR	E.P. Rowe Oil Limited	TARGET	ORD	CUR STATUS	OP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1984-12-18	NORTH	m	TOP	96.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-01-11	SOUTH	681.6 m	BOT	1136.0
CABLE TOP		KB ELEV	177.5	COMPTD	1985-01-18	EAST	m	TRAY	9065
BOT		LOGGER	1136.8	OFFCNF	1985-02-18	WEST	299.9 m		9066
ROTRY TOP	1.8	DRILLER	1136.0	WRKOVR		LAT	42-22-39		
BOT	1136.0	DEEP END		ABNDND		LONG	82-20-21		
DRLG FLD		PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
920.0 –	Show	
953.0 – 954.0	71.4	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	75.7	CEM	
178	30.0	333.5	CEM	
114	14.0	1133.2	CEM	
60			HAN	

COMPLETION DATA

GAS	460 0	10 ³m³/d
OIL	60.4	m³/d
SIP	8282	kPa
FORM	Coboconk	
INTRVL	1009.0-1034.0	m
		m
		m
PERF ☒	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
21.0 –	Show	
1004.0 – 1045.0	228.0	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
25.0 – 1128.5	CNFD	Schlumberger
860.0 – 1131.0	LDT	"
845.0 – 1116.2	CMPL	"
860.5 – 1128.4	NGRS	"
856.0 – 1136.0	DLLM	"
475.0 – 1135.0	DIPM	"
81.0 – 1124.0	CBVD	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	28.9		
	MARCELLUS			
	DUNDEE	88.7		
	COLUMBUS			
	LUCAS	125.7		
	AMHERSTBURG	182.0		
	SYLVANIA			
	BOIS BLANC	227.6		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	254.0		
	G SHALE	303.4		
	F SHALE	310.2		
	F SALT			
	E CARBONATE	342.2		
	D SALT/EQUIVALENT	383.7		
	C SHALE	386.2		
	B MARKER	401.3		
	B EQUIVALENT			
	B SALT	413.0		
	B ANHYDRITE			
	A2 CARBONATE	462.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	493.0		
	A1 CARBONATE	496.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	506.1		
	ERAMOSA			
	GOAT ISLAND	531.7		
	GASPORT/WIARTON	580.4		
	DECEW			
	ROCHESTER	590.7		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	598.4		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	600.2		
	MANITOULIN	639.8		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	650.0		
	BLUE MOUNTAIN - GEORG BAY	744.5		
	COLLINGWOOD			
	COBOURG	879.6		
	VERULAM	919.0		
	KIRKFIELD	959.4		
	COBOCONK	1001.3		
	GULL RIVER	1034.3		
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY	Kent	TWP	Dover	BLK		TRAC	2	LOT	7	CON	IV E
WELL NAME	Rowe Ram No. 10 Dover 2-7-IV E					PERMIT	6787	INIT CLASS	DEV		
OPERATOR	E.P. Rowe Oil Limited					TARGET	ORD	CUR STATUS	DH-		

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	177.0
BOT		LOGGER	1156.3
ROTRY TOP	1.5	DRILLER	1159.0
BOT	1159.0	DEEP END	
DRLG FLD	KCL Polymer	PLUG BK	

DATES	
PERMIT	1985-05-31
SPUD	1985-05-23
COMPTD	1985-05-29
OFFCNF	1985-06-29
WRKOVR	
ABNDND	

COORDINATES		
NORTH		m
SOUTH	109.4	m
EAST	192.0	m
WEST		m
LAT	42-22-57	
LONG	82-20-21	

SAMPLES	
TOP	106.0
BOT	1157.5
TRAY	9063
	9064

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.4	12.0	COL	
244	54.0	102.2	CEM	
178	36.0	338.1	CEM	

COMPLETION DATA

GAS		$10^3 m^3/d$
OIL		m^3/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
840.0 – 1155.0	DLLM	Schlumberger
801.0 – 1154.0	DIRS	"
840.0 – 1143.6	NGRS	"
15.0 – 1155.0	CNFD	"
848.2 – 1155.2	CBLK	"
575.0 – 1155.5	DIPM	"
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	84.6		
	COLUMBUS			
	LUCAS	126.5		
	AMHERSTBURG	177.2		
	SYLVANIA			
	BOIS BLANC	226.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	259.8		
	G SHALE	302.2		
	F SHALE	309.0		
	F SALT			
	E CARBONATE	341.4		
	D SALT/EQUIVALENT	379.4		
	C SHALE	384.2		
	B MARKER	398.5		
	B EQUIVALENT			
	B SALT	410.7		
	B ANHYDRITE			
	A2 CARBONATE	456.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	485.2		
	A1 CARBONATE	487.7		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	498.1		
	ERAMOSA			
	GOAT ISLAND	526.0		
	GASPORT/WIARTON	574.7		
	DECEW			
	ROCHESTER	584.5		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	592.2		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	593.8		
	MANITOULIN	633.5		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	640.0		
	BLUE MOUNTAIN - GEORG BAY	737.4		
	COLLINGWOOD			
	COBOURG	867.0		
	VERULAM	906.3		
	KIRKFIELD	948.2		
	COBOCONK	992.0		
	GULL RIVER	1026.7		
	SHADOW LAKE	1138.0		
CAMBRIAN		1140.0		
PRECAMBRIAN		1143.0		

GEOLOGY BY D. K. Parker

CTY	Kent	TWP	Dover	BLK		TRAC	6	LOT	7	CON	IV E
WELL NAME	Rowe Ram No. 9 Dover 6-7-IV-E					PERMIT	6778	INIT CLASS	DEV		
OPERATOR	E.P. Rowe Oil Limited					TARGET	ORD	CUR STATUS	GP		

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	177.6
BOT		LOGGER	1162.0
ROTRY TOP	1.5	DRILLER	1163.0
BOT	1163.0	DEEP END	
DRLG FLD	KCL Polymer	PLUG BK	1025.0

DATES	
PERMIT	1985-05-10
SPUD	1985-05-06
COMPTD	1985-05-14
OFFCNF	1985-06-14
WRKOVR	
ABNDND	

COORDINATES		
NORTH	476.1	m
SOUTH		m
EAST	109.7	m
WEST		m
LAT	42-22-35	
LONG	82-20-00	

SAMPLES	
TOP	106.0
BOT	1163.7
TRAY	9061-
	9062

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
914.0 – 922.0		10 146
999.0 – 1006.0	5.0	11119
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244.0	54.0	103.8	CEM	
178.0	36.0	335.8	CEM	
114.0	14.0	1035.0	CEM	
60.0	4.5		HAN	

COMPLETION DATA

GAS	18.6	$10^3 m^3/d$
OIL		m^3/d
SIP	11119	kPa
FORM	Coboconk	
INTRVL	997.5-1000.0	m
		m
		m
PERF ☒		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
862.0 – 1153.0	RFT	Schlumberger
848.0 – 1160.5	DLLM	"
27.0 – 1161.0	CNFD	"
12.0 – 1157.8	SONL	"
851.5 – 1154.2	NGRS	"
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–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	89.4		
	COLUMBUS			
	LUCAS	126.0		
	AMHERSTBURG	182.4		
	SYLVANIA			
	BOIS BLANC	231.5		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	262.2		
	G SHALE	304.7		
	F SHALE	311.2		
	F SALT			
	E CARBONATE	338.7		
	D SALT/EQUIVALENT	380.1		
	C SHALE	385.0		
	B MARKER	400.1		
	B EQUIVALENT			
	B SALT	412.2		
	B ANHYDRITE			
	A2 CARBONATE	460.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	490.5		
	A1 CARBONATE	493.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	503.7		
	ERAMOSA			
	GOAT ISLAND	529.0		
	GASPORT/WIARTON	578.0		
	DECEW			
	ROCHESTER	588.2		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	595.8		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	597.2		
	MANITOULIN	637.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	647.0		
	BLUE MOUNTAIN - GEORG BAY	741.4		
	COLLINGWOOD			
	COBOURG	872.7		
	VERULAM	911.7		
	KIRKFIELD	951.5		
	COBOCONK	995.4		
	GULL RIVER	1029.2		
	SHADOW LAKE	1140.5		
CAMBRIAN		1141.8		
PRECAMBRIAN		1145.4		

GEOLOGY BY D. K. Parker

CTY Kent	TWP Dover	BLK	TRAC 7	LOT 10	CON VE
WELL NAME Francisco et al Dover 7-10-VE			PERMIT 6845	INIT CLASS NPW	
OPERATOR Francisco Petroleum Enterprises Inc.			TARGET ORD	CUR STATUS DH -ABD	

DRILLING DATA

CONTRACTOR	Rawlings Drilling Co. Ltd.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.6	KB ELEV	178.0
BOT	1155.8	LOGGER	
ROTRY TOP		DRILLER	1156.8
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES

PERMIT	1985-08-13
SPUD	1985-08-14
COMPTD	1985-11-04
OFFCNF	1986-11-04
WRKOVR	
ABNDND	1985-11-14

COORDINATES

NORTH	228.6	m
SOUTH		m
EAST	262.1	m
WEST		m
LAT	42-23-46	
LONG	82-19-29	

SAMPLES

TOP	23.0
BOT	1155.8
TRAY	9111 9112

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
64.0 –	Show	
509.0 – 510.8	Show	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
339.7		22.3	SHO	22.3
273.1		93.0	SHO	93.0
219.1		322.8	PAC	313.6
177.8		608.4	CEM	529.5

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
19.8 –	3.0	FRE
64.0 –	12.2	SUL
125.0 –	76.2	SUL
518.2 –	152.4	SAL

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	22.3		
	HAMILTON	27.4		
	MARCELLUS			
	DUNDEE	88.0		
	COLUMBUS	122.0		
	LUCAS	136.0		
	AMHERSTBURG	173.0		
	SYLVANIA			
	BOIS BLANC	229.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	263.8		
	G SHALE	310.0		
	F SHALE	315.0		
	F SALT			
	E CARBONATE	348.0		
	D SALT/EQUIVALENT	381.0		
	C SHALE	384.1		
	B MARKER	402.0		
	B EQUIVALENT	409.0		
	B SALT	418.0		
	B ANHYDRITE	464.3		
	A2 CARBONATE	464.8		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	494.2		
	A1 CARBONATE	502.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	513.0		
	ERAMOSA			
	GOAT ISLAND	539.0		
	GASPORT/WIARTON	585.0		
	DECEW			
	ROCHESTER	599.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	602.7		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	605.8		
	MANITOULIN	649.8		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	653.0		
	BLUE MOUNTAIN GEORG BAY	753.0		
	COLLINGWOOD			
	COBOURG	879.3		
	VERULAM	919.0		
	KIRKFIELD	952.0		
	COBOCONK	1006.0		
	GULL RIVER	1039.0		
	SHADOW LAKE	1149.0		
	CAMBRIAN	1152.0		
	PRECAMBRIAN	1155.8		

GEOLOGY BY D.K. Parker

CTY Kent	TWP Dover	BLK EBR	TRAC 4	LOT 35	CON XIV
WELL NAME PPC #6 Dover 4-35-XIV EBR			PERMIT 6710	INIT CLASS NPW	
OPERATOR Paladin Petroleum Corporation			TARGET ORD	CUR STATUS DH-ABD	

DRILLING DATA

CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	178.5
BOT		LOGGER	1222.6
ROTRY TOP	1.8	DRILLER	1224.0
BOT	1224.0	DEEP END	
DRLG FLD	KCL	PLUG BK	

DATES

PERMIT	1985-02-25
SPUD	1985-02-22
COMPTD	1985-03-31
OFFCNF	1986-03-31
WRKOVR	
ABNDND	1985-04-01

COORDINATES

NORTH		m
SOUTH	271.0	m
EAST	106.7	m
WEST		m
LAT	42-31-22	
LONG	82-21-23	

SAMPLES

TOP	108.0
BOT	1223.0
TRAY	9058 9059

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	100.0	CEM	
178	30.0	460.0	CEM	310

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
661.5 – 1221.7	DLLM	Schlumberger
790.0 – 1210.9	NGRS	"
11.6 – 1213.5	CNFD	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	37.5		
	MARCELLUS			
	DUNDEE	92.2		
	COLUMBUS	118.0		
	LUCAS	124.8		
	AMHERSTBURG	196.3		
	SYLVANIA			
	BOIS BLANC	278.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	345.3		
	G SHALE	428.9		
	F SHALE	434.8		
	F SALT			
	E CARBONATE	465.0		
	D SALT/EQUIVALENT			
	C SHALE	510.3		
	B MARKER	523.2		
	B EQUIVALENT			
	B SALT	539.0		
	B ANHYDRITE			
	A2 CARBONATE	554.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	590.3		
	A1 CARBONATE	593.8		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	623.4		
	ERAMOSA			
	GOAT ISLAND	632.8		
	GASPORT/WIARTON	657.8		
	DECEW			
	ROCHESTER	675.8		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	683.8		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	685.3		
	MANITOULIN	716.8		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	735.6		
	BLUE MOUNTAIN - GEORG BAY	825.7		
	COLLINGWOOD			
	COBOURG	935.2		
	VERULAM	962.2		
	KIRKFIELD	1021.4		
	COBOCONK	1068.0		
	GULL RIVER	1080.0		
	SHADOW LAKE	1212.2		
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY Kent	TWP Howard	BLK	TRAC 4-1	LOT 5	CON RFC
WELL NAME Bailey #6 Howard 4-1-5-RFC			PERMIT 6680	INIT CLASS NPW	
OPERATOR Springs Drilling Limited			TARGET DEV	CUR STATUS GS	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Eagle Drilling Services Inc.			PERMIT	1985-02-01	NORTH	1109.0	m	TOP	21.3
RIG TYPE	ROT	DEPTHS		SPUD	1985-01-31	SOUTH		m	BOT	121.9
CABLE TOP		KB ELEV	187.3	COMPTD	1985-02-04	EAST		m	TRAY	182
BOT		LOGGER		OFFCNF	1986-02-04	WEST	64.0	m		
ROTRY TOP	1.3	DRILLER	130.0	WRKOVR		LAT	42-31-04			
BOT	130.0	DEEP END		ABNDND	1986-05-27	LONG	82-01-39			
DRLG FLD		PLUG BK	121.9							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
67.0 –	Show	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	23.3	21.0	CEM	

COMPLETION DATA

GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
28.0 –	4.0	
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	14.0		
	HAMILTON	23.0		
	MARCELLUS			
	DUNDEE	97.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: D. K. Parker

CTY Kent	TWP Raleigh	BLK	TRAC 3	LOT 2	CON I
WELL NAME Hala #1 Raleigh 3-3-2-I			PERMIT 6698	INIT CLASS DEV	
OPERATOR Nablis Enterprises Limited			TARGET DEV	CUR STATUS OP	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Eagle Drilling Services Inc.			PERMIT	1985-02-22	NORTH	732.4	m	TOP	37.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-02-16	SOUTH		m	BOT	79.2
CABLE TOP		KB ELEV	176.7	COMPTD	1985-02-21	EAST	61.0	m	TRAY	261
BOT		LOGGER		OFFCNF	1985-03-21	WEST		m		
ROTRY TOP	1.3	DRILLER	77.7	WRKOVR		LAT	42-20-48			
BOT	77.7	DEEP END		ABNDND		LONG	82-20-54			
DRLG FLD		PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
56.4 –	Show	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178		35.4	SHO	9.1
114		56.3	CEM	

COMPLETION DATA

GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
56.4 –	Show	
66.1 – 68.6	1.59	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	27.7		
	MARCELLUS			
	DUNDEE	56.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: D. K. Parker

CTY: Kent TWP: Raleigh BLK: TRAC: 1 LOT: 11 CON: VI
WELL NAME: Dynamar et al Raleigh I-11-VI PERMIT: 6728 INIT CLASS: NPW
OPERATOR: Dynamar Energy Limited TARGET: CAM CUR STATUS: OS-GS-ABD

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Rawlings Drilling Co. Ltd.			PERMIT	1985-03-29	NORTH		m	TOP	23.0
RIG TYPE	CAB	DEPTHS		SPUD	1985-05-01	SOUTH	121.9	m	BOT	1153.4
CABLE TOP	1.3	KB ELEV		COMPTD	1985-07-16	EAST	454.4	m	TRAY	9072
BOT	1153.8	LOGGER	1154.0	OFFCNF	1986-07-16	WEST		m		9073
ROTRY TOP		DRILLER	1153.8	WRKOVR		LAT	42-20-25			
BOT		DEEP END		ABNDND	1985-08-07	LONG	82-14-43			
DRLG FLD		PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
1145.1–	4.86	6826
1145.1– 1146.4	3.87	7654
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
346.1	54.0	26.8	SHO	
273.1	40.5	102.3	SHO	
219.1	24	332.8	PAC	
177.8	20	588.3	CEM	

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
1145.1– 1146.4	Show	
1146.4– 1147.9	1.1	832.4
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–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
1.2 – 1151.8	GRNL	Computalog
874.2 – 1153.2	DENL	"
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–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
22.9 –	12.2	FRE
134.1 –	45.7	SUL
500.0 –	121.9	SUL
1146.4– 1147.9		SAL
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	25.6		
	HAMILTON	36.7		
	MARCELLUS			
	DUNDEE	101.5		
	COLUMBUS	152.1		
	LUCAS	154.3		
	AMHERSTBURG	192.5		
	SYLVANIA			
	BOIS BLANC	204.8		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	266.5		
	G SHALE	339.5		
	F SHALE	346.5		
	F SALT			
	E CARBONATE	374.2		
	D SALT/EQUIVALENT			
	C SHALE	418.2		
	B MARKER	435.5		
	B EQUIVALENT	441.0		
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE	454.2		
	A2 SALT	475.3		
SILURIAN	A2 ANHYDRITE	481.2		
	A1 CARBONATE	483.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	493.2		
	ERAMOSA			
	GOAT ISLAND	517.8		
	GASPORT/WIARTON	568.7		
	DECEW			
	ROCHESTER	578.3		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	587.0		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	588.5		
	MANITOULIN	628.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	637.5		
	BLUE MOUNTAIN - GEORG BAY	733.8		
	COLLINGWOOD			
	COBOURG	875.0		
	VERULAM	918.8		
	KIRKFIELD	956.4		
	COBOCONK	997.5		
	GULL RIVER	1030.0		
	SHADOW LAKE	1140.8		
	CAMBRIAN	1144.0		
	PRECAMBRIAN	1147.7		

GEOLOGY BY D. K. Parker

CTY: Kent TWP: Raleigh BLK: TRAC: 5 LOT: 19 CON: VIII
WELL NAME: Cameron Doyles #1 Raleigh 5-19-VIII PERMIT: 6630 INIT CLASS: NPW
OPERATOR: H. Brett & Associates Limited TARGET: SAL CUR STATUS: GP-OS

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Bothwell Drilling & Servicing Ltd.			PERMIT	1984-11-21	NORTH	551.2	m	TOP	31.0
RIG TYPE	ROT	DEPTHS		SPUD	1984-12-29	SOUTH		m	BOT	510.5
CABLE TOP		KB ELEV	182.0	COMPTD	1985-05-04	EAST	428.9	m	TRAY	422
BOT		LOGGER	509.9	OFFCNF	1985-06-04	WEST		m		
ROTRY TOP	1.8	DRILLER	510.5	WRKOVR		LAT	42-20-31			
BOT	510.5	DEEP END		ABNDND		LONG	82-10-01			
DRLG FLD		PLUG BK	494.0							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
494.7 –	Show	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
339.7		18.9	CEM	
273.0		35.4	CEM	
177.8		310.6	CEM	
114.3		495.0	CEM	

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☒	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
494.7 – 504.4	.79	
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
.8 – 507.5	GRNL	Computalog
472.7 – 509.6	DENL	"
–		
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–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
28.0 –		FRE
154.8 –		SAL
506.0 –		SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	28.0		
	MARCELLUS			
	DUNDEE	99.1		
	COLUMBUS			
	LUCAS	146.0		
	AMHERSTBURG	166.4		
	SYLVANIA			
	BOIS BLANC	215.8		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	237.4		
	G SHALE	333.8		
	F SHALE	341.1		
	F SALT			
	E CARBONATE	389.2		
	D SALT/EQUIVALENT			
	C SHALE	414.2		
	B MARKER	430.1		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	445.3		
	A2 CARBONATE	446.5		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	475.0		
	A1 CARBONATE	477.6		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	486.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY Kent	TWP Tilbury East	BLK	TRAC 1	LOT 5	CON NMR
WELL NAME Consumers' 34025 Tilbury E 1-5-NMR			PERMIT 6912	INIT CLASS NPW	
OPERATOR The Consumers' Gas Company Limited			TARGET ORD	CUR STATUS DH-ABD	

DRILLING DATA		DATES	COORDINATES	SAMPLES
CONTRACTOR Underwater Gas Developers Ltd.		PERMIT 1985-10-30	NORTH m	TOP 96.0
RIG TYPE ROT	DEPTHS	SPUD 1985-11-01	SOUTH 110.0 m	BOT 1155.0
CABLE TOP	KB ELEV 190.2	COMPTD 1985-11-10	EAST m	TRAY 6848-6849
BOT	LOGGER 1153.5	OFFCNF 1986-11-10	WEST 107.0 m	
ROTRY TOP 3.0	DRILLER 1155.0	WRKOVR	LAT 42-15-12	
BOT 1155.0	DEEP END	ABNDND 1985-11-11	LONG 82-15-43	
DRLG FLD BRINE	PLUG BK			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	93.0	CEM	
178	25.0	566.9	CEM	

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
97.0 – 569.0	DLLM	Schlumberger
23.0 – 1143.2	CNFD	"
97.0 – 569.0	SONL	"
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–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
156.0 –		SUL
1121.0 – 1140.0		SAL
–		
–		
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CORING RECORD

INTERVAL	LOCATION	NO	
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	50.5		
	MARCELLUS			
	DUNDEE	97.8		
	COLUMBUS			
	LUCAS	141.4		
	AMHERSTBURG	163.4		
	SYLVANIA			
	BOIS BLANC	198.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	250.7		
	G SHALE	288.0		
	F SHALE	295.0		
	F SALT			
	E CARBONATE	325.6		
	D SALT/EQUIVALENT	360.0		
	C SHALE	364.8		
	B MARKER	380.3		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	394.7		
	A2 CARBONATE	400.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	419.7		
	A1 CARBONATE	427.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	448.0		
	ERAMOSA			
	GOAT ISLAND	480.0		
	GASPORT/WIARTON	521.3		
	DECEW			
	ROCHESTER	546.6		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	555.7		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	558.2		
	MANITOULIN	597.5		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	607.0		
	BLUE MOUNTAIN - GEORG BAY	700.3		
	COLLINGWOOD			
	COBOURG	857.0		
	VERULAM	892.5		
	KIRKFIELD	945.4		
	COBOCONK	975.2		
	GULL RIVER	1007.8		
	SHADOW LAKE	1120.0		
	CAMBRIAN	1124.6		
	PRECAMBRIAN	1143.7		

GEOLOGY BY: D.K. PArker

CTY Kent	TWP Zone	BLK	TRAC 3	LOT 15	CON II
WELL NAME Consumers et al Zone 33981 3-15 II			PERMIT 6821	INIT CLASS NPW	
OPERATOR The Consumers Gas Company Ltd.			TARGET SAL	CUR STATUS CS-ABD	

DRILLING DATA		DATES	COORDINATES	SAMPLES
CONTRACTOR Underwater Gas Developers Ltd.		PERMIT 1985-06-25	NORTH m	TOP 106.0
RIG TYPE ROT	DEPTHS	SPUD 1985-06-13	SOUTH 192.0 m	BOT 547.0
CABLE TOP	KB ELEV 196.7	COMPTD 1985-06-18	EAST m	TRAY 5272
BOT	LOGGER 548.0	OFFCNF 1986-06-18	WEST 438.9 m	
ROTRY TOP 2.2	DRILLER 548.0	WRKOVR	LAT 42-38-57	
BOT 548.0	DEEP END	ABNDND 1985-06-20	LONG 81-58-07	
DRLG FLD Brine	PLUG BK			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
448.0 – 465.0	Show	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	102.2	CEM	
178	29.7	377.8	CEM	240.0

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
485.0 – 486.0	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
393.0 – 547.0	CBLK	Schlumberger
393.0 – 546.0	DLLM	"
10.0 – 537.8	CNFD	
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
158.0 –		FRE
283.0 –		SUL
485.0 –		SAL
503.0 –		SAL
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–		

CORING RECORD

INTERVAL	LOCATION	NO	
–			
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	18.4		
	HAMILTON	31.8		
	MARCELLUS			
	DUNDEE	112.7		
	COLUMBUS	142.2		
	LUCAS	147.0		
	AMHERSTBURG	204.5		
	SYLVANIA			
	BOIS BLANC	264.2		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	283.2		
	G SHALE	324.8		
	F SHALE	331.2		
	F SALT			
	E CARBONATE	358.4		
	D SALT/EQUIVALENT	395.4		
	C SHALE	396.7		
	B MARKER	409.4		
	B EQUIVALENT	415.2		
	B SALT			
	B ANHYDRITE	423.7		
	A2 CARBONATE	427.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	448.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	459.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY: Kent TWP: Zone BLK: TRAC: 3-1 LOT: 21 CON: R.R.
WELL NAME: Sussex Zone 3-1-21-R.R. PERMIT: 6877 INIT CLASS: DEV
OPERATOR: Sussex Explorations Limited TARGET: DEV CUR STATUS: OS

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR:	Circle A. Drilling Inc.			PERMIT:	1985-08-27	NORTH:	m	TOP:	42.0
RIG TYPE:	CAB	DEPTHS		SPUD:	1985-09-04	SOUTH:	251.5 m	BOT:	126.0
CABLE TOP:	0.8	KB ELEV:	206.3	COMPTD:	1985-09-14	EAST:	395.1 m	TRAY:	290
BOT:	126.0	LOGGER:	125.6	OFFCNF:	1985-10-14	WEST:	m		
ROTRY TOP:		DRILLER:	126.0	WRKOVR:		LAT:	42-36-49		
BOT:		DEEP END:		ABNDND:		LONG:	81-50-18		
DRLG FLD:	Water	PLUG BK:	123.0						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	45.8	SHO	
178	25.3	72.2	SHO	72.2
140	20.8	100.0	BHP	
60	6.8	121.6		

COMPLETION DATA

GAS: 10 ^{3}m^3/d
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m
PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
77.0 – 86.0	Show	
102.0 – 106.0	Show	
120.2 – 125.0	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 122.5	GRNL	Computalog
99.2 – 124.4	DENL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
2.0 –		FRE
32.0 –		FRE
56.0 –		BRA
75.0 –		BRA
126.0 –		SUL
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
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–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	38.8		
	MARCELLUS			
	DUNDEE	73.2		
	COLUMBUS	123.0		
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
SILURIAN	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY: Kent TWP: Zone BLK: TRAC: 4-2 LOT: 21 CON: R.R.
WELL NAME: Sussex Zone 4-2-21-R.R. PERMIT: 6909 INIT CLASS: DEV
OPERATOR: Sussex Explorations Limited TARGET: DEV CUR STATUS: OS-ABD

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR:	Circle A. Drilling Inc.			PERMIT:	1985-10-23	NORTH:	m	TOP:	43.0
RIG TYPE:	CAB	DEPTHS		SPUD:	1985-10-29	SOUTH:	251.5 m	BOT:	123.5
CABLE TOP:	0.8	KB ELEV:	206.8	COMPTD:	1985-11-13	EAST:	242.7 m	TRAY:	392
BOT:	123.5	LOGGER:	123.5	OFFCNF:	1985-12-13	WEST:	m		
ROTRY TOP:		DRILLER:	123.5	WRKOVR:		LAT:	42-36-49		
BOT:		DEEP END:		ABNDND:		LONG:	81-50-18		
DRLG FLD:	Oil & Water	PLUG BK:	122.0						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
88.0 – 90.0	SHOW	
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–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	43.4	SHO	
178	25.3	72.8	SHO	72.8
140	20.8	90.9	BHP	
60	6.8	122.0		

COMPLETION DATA

GAS: 10 ^{3}m^3/d
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m
PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
88.0 – 90.0	SHOW	
99.5 – 114.0	SHOW	
116.0 – 119.0	SHOW	
120.0 – 123.5	SHOW	
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 121.5	GRNL	Computalog
91.4 – 123.2	DENL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
20.0 –		FRE
74.0 –		SUL
123.0 –	21.0	SUL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	43.2		
	MARCELLUS			
	DUNDEE	72.7		
	COLUMBUS	120.0		
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
SILURIAN	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY: Haldimand	TWP: Lake Erie	BLK 18	TRAC T-1	LOT -	CON -
WELL NAME	Place Rainham L.E. 18-T-1	PERMIT 6880	INIT CLASS DEV		
OPERATOR	Place Gas & Oil Co. Ltd	TARGET CLI	CUR STATUS GP		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	85-08-29	NORTH	- m	TOP	-
RIG TYPE	CABLE	DEPTHS		SPUD	85-09-14	SOUTH	- m	BOT	-
CABLE TOP	24.1	KB ELEV	182.3	COMPTD	85-09-28	EAST	- m	TRAY	-
BOT	286.8	LOGGER	-	OFFCNF	85-10-28	WEST	- m		
ROTRY TOP	-	DRILLER	286.8	WRKOVR		LAT	42-46-45		
BOT	-	DEEP END	-	ABNDND		LONG	79-50-15		
DRLG FLD	-	PLUG BK	-						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
273.1 – 273.7	0.567	3172
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	30.8	SHO	23.8
114	14.1	267.9	BHP	23.8

COMPLETION DATA

GAS	0.567	$10^3 m^3/d$
OIL	–	m^3/d
SIP	3172	kPa
FORM	Grimsby	
INTRVL	273.1 - 273.7	m
		m
		m
PERF ☐	OPEN HOLE ☒	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

Only operator picks are available.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
90.8 – -	-	FRE
–		
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	7.6		
	DRIFT / LAKE BOTTOM	24.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

		TOP	ELEV	THICK
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD	265.2		
	GRIMSBY	271.9		
	CABOT HEAD	283.8		
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY Haldimand	TWP: Lake Erie	BLK: 18	TRAC: U-1	LOT: -	CON: -
WELL NAME	Place Rainham L. E. 18-U-1	PERMIT: 6678	INIT CLASS: DEV		
OPERATOR	Place Gas & Oil Co. Ltd.	TARGET: CLI	CUR STATUS: GP		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	85-08-08	NORTH:	- m	TOP:	-
RIG TYPE	CAB	DEPTHS		SPUD:	85-07-28	SOUTH:	- m	BOT:	-
CABLE TOP	27.4	KB ELEV:	181.0	COMPTD:	85-08-10	EAST:	- m	TRAY:	-
BOT	292.0	LOGGER:	-	OFFCNF:	85-09-10	WEST:	- m		
ROTRY TOP	-	DRILLER:	292.0	WRKOVR:	-	LAT:	42-45-45		
BOT	-	DEEP END:	-	ABNDND:	-	LONG:	79-50-15		
DRLG FLD	-	PLUG BK:	-						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
– 282.9	.057	-
– 283.8	0.76	-
– 285.0	2.21	-
– 286.5	1.39	-
– 289.6	14.02	-
– 290.8	20.93	-

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	315.7	36.6	SHO	29.3
114	14.1	274.9	PAC	29.8
25	-	290.8	HAN	29.8

COMPLETION DATA

GAS:	34.0	$10^3 m^3/d$
OIL:	-	m^3/d
SIP:	2965.	kPa
FORM:	Grimsby	
INTRVL.	290.8 - 292.0	m
		m
		m
PERF ☐	OPEN HOLE ☒	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

Only operator picks are available.

*Initial Gas Record - 292.01 / 34.01 / -

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
– 51.8	44.2	SUL
–		
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.7		
	DRIFT / LAKE BOTTOM	27.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

		TOP	ELEV	THICK
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	246.0		
	IRONDEQUOIT	274.9		
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY	281.9		
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY:	Haldimand	TWP:	Lake Erie	BLK:	18	TRAC:	X-1	LOT: -	CON: -
WELL NAME:	Place Rainham L.E. 18-X-1			PERMIT:	6879	INIT CLASS:	DEV		
OPERATOR:	Place Gas & Oil Co. Ltd.			TARGET:	CLI	CUR STATUS:	GP		

DRILLING DATA			
CONTRACTOR:	Murray Rose Drilling Inc.		
RIG TYPE:	CABLE	DEPTHS	
CABLE TOP:	25.9	KB ELEV:	182.3
BOT:	292.6	LOGGER:	-
ROTRY TOP:	-	DRILLER:	292.6
BOT:	-	DEEP END:	-
DRLG FLD:	-	PLUG BK:	-

DATES	
PERMIT:	85-08-29
SPUD:	85-09-30
COMPTD:	85-10-16
OFFCNF:	85-11-16
WRKOVR:	
ABNDND:	

COORDINATES		
NORTH:	-	m
SOUTH:	-	m
EAST:	-	m
WEST:	-	m
LAT:	42-45-31	
LONG:	79-53-18	

SAMPLES	
TOP:	-
BOT:	-
TRAY:	-

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
280.4 – 281.6	.368	-
281.6 – 283.5	.397	-
283.5 – 287.4	.411	-
287.4 – 289.6	1.255	-
289.6 – 290.8	1.632	-
290.8 – 291.7	1.868	2172

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	25.9	SHO	25.0
178	29.8	157.9	BAR	147.8
114	14.1	273.4	BHP	25.0

COMPLETION DATA

GAS: 1.868 10³m³/d
OIL: - m³/d
SIP: 2172 kPa
FORM: Grimsby
INTRVL: 290.8 - 291.7 m
PERF ☐ OPEN HOLE ☒

REMARKS

Only operator picks are available.

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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–		
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	7.6		
	DRIFT / LAKE BOTTOM	25.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

		TOP	ELEV	THICK
	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
SILURIAN	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	243.8		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD	273.4		
	GRIMSBY	280.4		
	CABOT HEAD	291.7		
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: Debra K. Parker

CTY	Haldimand	TWP:	Lake Erie	BLK:	40	TRAC:	Q	LOT: -	CON: -
WELL NAME	Pembina #3 L. E. 40-Q			PERMIT:	6797	INIT CLASS:	DEV		
OPERATOR:	Pembina Exploration Co. Ltd.			TARGET:	CLI	CUR STATUS:	GP		

DRILLING DATA			
CONTRACTOR:	Pembina Resources Limited		
RIG TYPE:	ROT	DEPTHS	
CABLE TOP:	-	KB ELEV:	181.2
BOT:	-	LOGGER:	400.2
ROTRY TOP:	38.2	DRILLER:	400.3
BOT:	400.3	DEEP END:	-
DRLG FLD:	NaCl Brine	PLUG BK:	385.5

DATES	
PERMIT:	85-06-05
SPUD:	85-07-02
COMPTD:	85-07-09
OFFCNF:	85-08-09
WRKOVR:	-
ABNDND:	-

COORDINATES		
NORTH:	-	m
SOUTH:	-	m
EAST:	-	m
WEST:	-	m
LAT:	42-41-14	
LONG:	79-38-41	

SAMPLES	
TOP:	99.0
BOT:	399.0
TRAY:	8198

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
248.0 – -	Show	-
331.0 – -	Show	-
334.0 – 352.0	6.229	5014
369.0 – 376.0	0.148	5440
–		
–		

CASING AND TUBING RECORD

DIAM.	WEIGHT	SET AT	HOW SET	RECOV
273	75.4	99.8	CEM	0
178	25.3	145.2	CEM	0
114	17.3	395.5	CEM	0
60	6.9	332.2	HAN	332.2

COMPLETION DATA

GAS: 6.229 10³m³/d
OIL: - m³/d
SIP: 5014 kPa
FORM: Grimsby
INTRVL: 335.1 - 349.6 m
PERF ☒ OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
235.0 – 390.0	CBLK	SCH
33.0 – 399.2	CNFD	"
146.0 – 399.7	DLLM	"
287.0 – 385.5	CMPL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO.	ANAL
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GEOLOGICAL CONTACTS		TOP	ELEV.	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	38.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	84.6		
	SYLVANIA			
	BOIS BLANC	104.6		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	120.4		
	G SHALE	134.2		
	F SHALE	138.4		
	F SALT			
	E CARBONATE	164.8		
	D SALT/EQUIVALENT	195.8		
	C SHALE	197.5		
	B MARKER	205.7		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	220.0		
	A2 CARBONATE	228.0		
	A2 SALT			

		TOP	ELEV.	THICK
	A2 ANHYDRITE	238.0		
	A1 CARBONATE			
	A1 SALT			
SILURIAN	A1 ANHYDRITE			
	GUELPH	241.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	294.5		
	ROCHESTER	311.4		
	IRONDEQUOIT	326.7		
	REYNALES/FOSSIL HILL	328.2		
	THOROLD	330.8		
	GRIMSBY	333.8		
	CABOT HEAD	349.8		
	MANITOULIN			
	WHIRLPOOL	369.0		
ORDOVICIAN	QUEENSTON	374.8		
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: Debra K. Parker

CTY	Haldimand	TWP	Lake Erie	BLK	40	TRAC	W	LOT	-	CON	-
WELL NAME	Pembina #1 L.E. 40-W			PERMIT	6851			INIT CLASS	DEV		
OPERATOR:	Pembina Exploration Co Ltd			TARGET	CLI			CUR STATUS	GP		

DRILLING DATA			
CONTRACTOR:	Pembina Resources Limited		
RIG TYPE:	ROT	DEPTHS	
CABLE TOP:	-	KB ELEV:	180.7
BOT:	-	LOGGER:	405.5
ROTRY TOP:	36.6	DRILLER:	405.8
BOT:	405.8	DEEP END:	-
DRLG FLD:	FRESH WATER	PLUG BK:	392.0

DATES	
PERMIT	85-08-20
SPUD	85-09-12
COMPTD	85-09-16
OFFCNF	85-10-16
WRKOVR	-
ABNDND	-

COORDINATES		
NORTH	-	m
SOUTH	-	m
EAST	-	m
WEST	-	m
LAT	42-40-59.7	
LONG	79-37-06.6	

SAMPLES	
TOP:	-
BOT:	-
TRAY:	-

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
328.0 – -	-	-
341.0 – 354.0	26.817	5060
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	97.10	CEM	0
178	25.3	145.0	CEM	0
114	17.3	403.5	CEM	0
60	6.9	340.1	HAN	340.1

COMPLETION DATA

GAS	26.817	$10^3 m^3/d$
OIL	-	m^3/d
SIP	5060	kPa
FORM	Grimsby	
INTRVL	341.0 - 354.0	m
		m
		m
PERF ☒		OPEN HOLE ☐

REMARKS

These are log picks.

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
146.5 – 401.0	DLLM	SCH
298.0 – 391.5	CMPL	"
32.5 – 397.5	CNFD	"
–		
–		
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	
–			
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	36.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	86.3		
	AMHERSTBURG	96.8		
	SYLVANIA			
	BOIS BLANC	111.9		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	123.2		
	G SHALE	134.7		
	F SHALE	139.8		
	F SALT			
	E CARBONATE	162.2		
	D SALT/EQUIVALENT			
	C SHALE	199.7		
	B MARKER	208.0		
	B EQUIVALENT	213.6		
	B SALT			
	B ANHYDRITE	222.0		
	A2 CARBONATE	226.9		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	239.7		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA	242.8		
	GOAT ISLAND	249.7		
	GASPORT/WIARTON	265.8		
	DECEW	297.4		
	ROCHESTER	312.7		
	IRONDEQUOIT	328.2		
	REYNALES/FOSSIL HILL	330.8		
	THOROLD	334.0		
	GRIMSBY	335.0		
	CABOT HEAD	351.7		
	MANITOULIN			
	WHIRLPOOL	372.4		
ORDOVICIAN	QUEENSTON	378.9		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: Debra K. Parker

CTY	Haldimand	TWP	Lake Erie	BLK	40	TRAC	W	LOT	-	CON	-
WELL NAME	Pembina #2 L.E. 40-W			PERMIT	6852			INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI			CUR STATUS	DH-ABD		

DRILLING DATA			
CONTRACTOR	Pembina Resources Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	180.7
BOT	-	LOGGER	407.5
ROTRY TOP	36.8	DRILLER	408.5
BOT	408.5	DEEP END	-
DRLG FLD	NaCl Brine	PLUG BK	-

DATES	
PERMIT	85-08-20
SPUD	85-09-08
COMPTD	85-09-12
OFFCNF	85-10-12
WRKOVR	-
ABNDND	85-09-12

COORDINATES		
NORTH	-	m
SOUTH	-	m
EAST	-	m
WEST	-	m
LAT	42-40-39	
LONG	79-37-53	

SAMPLES	
TOP	102.0
BOT	408.5
TRAY	321

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
134.0 – -	Show	-
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–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	99.1	CEM	0
178	25.3	153.4	CEM	0

COMPLETION DATA

GAS		$10^3 m^3/d$
OIL		m^3/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
30.0 – 407.0	CNFD	SCH
160.0 – 407.0	DLLM	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	36.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	90.0		
	SYLVANIA			
	BOIS BLANC	111.9		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	124.1		
	G SHALE	138.5		
	F SHALE	144.1		
	F SALT			
	E CARBONATE	170.7		
	D SALT/EQUIVALENT	201.8		
	C SHALE	204.2		
	B MARKER	212.6		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	226.2		
	A2 CARBONATE	231.8		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	244.2		
	A1 CARBONATE	245.6		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	248.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	302.5		
	ROCHESTER	316.4		
	IRONDEQUOIT	334.7		
	REYNALES/FOSSIL HILL	336.8		
	THOROLD	339.8		
	GRIMSBY	340.9		
	CABOT HEAD	363.3		
	MANITOULIN			
	WHIRLPOOL	376.2		
ORDOVICIAN	QUEENSTON	381.8		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: Debra K. Parker

CTY Haldimand	TWP Lake Erie	BLK 40	TRAC X	LOT –	CON –
WELL NAME Pembina #3 L. E. 40-X		PERMIT 6753		INIT CLASS DEV	
OPERATOR Pembina Exploration Co. Ltd.		TARGET CLI		CUR STATUS GP	

DRILLING DATA

CONTRACTOR	Pembina Resources Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	–	KB ELEV	180.7
BOT	–	LOGGER	408.0
ROTRY TOP	38.3	DRILLER	408.4
BOT	408.4	DEEP END	–
DRLG FLD	NaCl Brine	PLUG BK	394.0

DATES		COORDINATES			SAMPLES
PERMIT	85-05-01	NORTH	–	m	TOP 105.0
SPUD	85-05-29	SOUTH	–	m	BOT 408.0
COMPTD	85-06-04	EAST	–	m	TRAY 433
OFFCNF	85-07-04	WEST	–	m	
WRKOVR	–	LAT	42-40-04		
ABNDND	–	LONG	79-38-52		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
108.0 – –	Show	–
129.0 – –	Show	–
186.9 – –	Show	–
349.0 – –	Show	–
356.5 – 361.5	15.92	4640
380.0 – 387.0	1.938	5442

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	101.5	CEM	0
178	25.3	150.5	CEM	0
114	17.3	405.3	CEM	0
60	6.9	346.7	HAN	346.7

COMPLETION DATA

GAS	15.92	10³m³/d
OIL	–	m³/d
SIP	4640	kPa
FORM	Grimsby	
INTRVL	349.8 - 359.8	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
32.0 – 408.0	CNFD	SCH
345.0 – 403.0	RFT	"
155.0 – 408.0	DLLM	"
295.0 – 394.0	CMPL	"
225.0 – 398.0	CBLK	
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	38.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	91.2		
	AMHERSTBURG	99.4		
	SYLVANIA			
	BOIS BLANC	118.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	127.7		
	G SHALE	142.4		
	F SHALE	147.8		
	F SALT			
	E CARBONATE	173.4		
	D SALT/EQUIVALENT	204.8		
	C SHALE	206.8		
	B MARKER	214.4		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	230.0		
	A2 CARBONATE	234.4		
	A2 SALT			

		TOP	ELEV	THICK
SILURIAN	A2 ANHYDRITE	247.0		
	A1 CARBONATE	250.3		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	253.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	304.0		
	ROCHESTER	320.7		
	IRONDEQUOIT	337.0		
	REYNALES/FOSSIL HILL	339.2		
	THOROLD	340.8		
	GRIMSBY	343.6		
	CABOT HEAD	359.8		
	MANITOULIN			
	WHIRLPOOL	380.3		
ORDOVICIAN	QUEENSTON	386.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY Haldimand	TWP Lake Erie	BLK 41	TRAC M	LOT	CON
WELL NAME Pembina #1 L.E. 41-M		PERMIT 6742		INIT CLASS DEV	
OPERATOR Pembina Exploration Co. Ltd.		TARGET CLI		CUR STATUS GP	

DRILLING DATA

CONTRACTOR	Pembina Resources Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	180.8
BOT		LOGGER	375.3
ROTRY TOP	39.1	DRILLER	375.6
BOT	375.6	DEEP END	
DRLG FLD	NaCl BRINE	PLUG BK	364.0

DATES		COORDINATES			SAMPLES
PERMIT	1985-05-01	NORTH		m	TOP 78.0
SPUD	1985-04-30	SOUTH		m	BOT 375.0
COMPTD	1985-05-08	EAST		m	TRAY 4444
OFFCNF	1985-06-08	WEST		m	
WRKOVR		LAT	42-42-29.6		
ABNDND		LONG	79-42-15.6		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
320.0 – 324.0	0.134	4615
350.0 – 357.0	0.243	5430
–		
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–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	75.31	CEM	
178	25.3	121.7	CEM	
114	17.3	370.9	CEM	
60	6.9	399.4	HAN	

COMPLETION DATA

GAS	0.245	10³m³/d
OIL		m³/d
SIP	5430	kPa
FORM	Whirlpool	
INTRVL	352.4-354.0	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
200.0 – 360.0	CBLK	Schlumberger
34.0 – 374.0	CNFD	"
125.0 – 374.0	DLLM	"
125.0 – 374.0	RFT	"
295.0 – 363.0	CMPL	"
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
223.0 –		SLL
–		
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–		

CORING RECORD

INTERVAL	LOCATION	NO.	mm
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–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.1		
	DRIFT / LAKE BOTTOM	39.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	64.1		
	SYLVANIA			
	BOIS BLANC	85.4		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	95.0		
	G SHALE	110.0		
	F SHALE	116.8		
	F SALT			
	E CARBONATE	144.7		
	D SALT/EQUIVALENT	175.1		
	C SHALE	176.2		
	B MARKER	185.4		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	199.6		
	A2 CARBONATE	204.7		
	A2 SALT			

		TOP	ELEV	THICK
SILURIAN	A2 ANHYDRITE	218.3		
	A1 CARBONATE	219.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	222.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	277.0		
	ROCHESTER	291.0		
	IRONDEQUOIT	308.4		
	REYNALES/FOSSIL HILL	309.6		
	THOROLD	312.0		
	GRIMSBY	313.9		
	CABOT HEAD	330.7		
	MANITOULIN			
	WHIRLPOOL	351.7		
ORDOVICIAN	QUEENSTON	355.4		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY	Haldimand	TWP	Lake Erie	BLK	41	TRAC	N	LOT	-
WELL NAME	Pembina #2A L. E. 41-N			PERMIT	6751	INIT CLASS	DEV	CON	-
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	GP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-05-01	NORTH	-	m	TOP	90.0
RIG TYPE	ROT	DEPTHS		SPUD	85-06-14	SOUTH	-	m	BOT	372.0
CABLE TOP	-	KB ELEV	181.2	COMPTD	85-06-23	EAST	-	m	TRAY	311
BOT	-	LOGGER	376.5	OFFCNF	85-07-23	WEST	-	m		
ROTRY TOP	38.8	DRILLER	376.9	WRKOVR	-	LAT	42-42-54			
BOT	376.9	DEEP END	-	ABNDND	-	LONG	79-43-56			
DRLG FLD	NaCl Brine	PLUG BK	362.5							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
218.7 – –	Show	-
318.0 – –	Show	-
313.0 – 329.0	.736	4664
349.0 – 354.0	.31	5358
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	74.5	89.8	CEM	0
178	25.3	121.6	CEM	0
114	17.3	372.8	CEM	0
60	6.9	347.0	HAN	347.0

COMPLETION DATA

GAS	0.31	10³m³/d
OIL	-	m³/d
SIP	5358	kPa
FORM	Whirlpool	
INTRVL	350.5 - 352.7	m
		m
		m
PERF ☒		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
30.0 –375.5	CNFD	SCH
268.0 – 362.5	CMPL	"
122.0 – 376.0	DLLM	"
122.0 – 376.0	CBLK	"
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
268.0 – –	-	SUL
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	
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–			
–			
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK			TOP		
	KB / LAKE LEVEL	6.5			SILURIAN	A2 ANHYDRITE	216.0		
	DRIFT / LAKE BOTTOM	38.8				A1 CARBONATE	217.4		
DEVONIAN	PORT LAMBTON					A1 SALT			
	KETTLE POINT					A1 ANHYDRITE			
	HAMILTON					GUELPH	221.0		
	MARCELLUS					ERAMOSA			
	DUNDEE					GOAT ISLAND			
	COLUMBUS					GASPORT/WIARTON	243.0		
	LUCAS					DECEW	273.6		
	AMHERSTBURG	75.3				ROCHESTER	289.5		
	SYLVANIA					IRONDEQUOIT	305.9		
	BOIS BLANC	80.0				REYNALES/FOSSIL HILL	308.4		
	SPRINGVALE					THOROLD	310.0		
	ORISKANY					GRIMSBY	311.6		
SILURIAN	BASS ISLANDS	98.8				CABOT HEAD	327.2		
	G SHALE	111.2				MANITOULIN			
	F SHALE	117.2				WHIRLPOOL	349.2		
	F SALT				ORDOVICIAN	QUEENSTON	353.0		
	E CARBONATE	143.0				BLUE MOUNTAIN - GEORG BAY			
	D SALT/EQUIVALENT	173.4				COLLINGWOOD			
	C SHALE	175.2				COBOURG			
	B MARKER	182.9				VERULAM			
	B EQUIVALENT					KIRKFIELD			
	B SALT					COBOCONK			
	B ANHYDRITE	197.4				GULL RIVER			
	A2 CARBONATE	201.8				SHADOW LAKE			
	A2 SALT				CAMBRIAN				
					PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY	Haldimand	TWP	Lake Erie	BLK	41	TRAC	V	LOT	-
WELL NAME	Pembina #2 L. E. 41-V			PERMIT	6752	INIT CLASS	DEV	CON	-
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	GP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-05-01	NORTH	-	m	TOP	104.0
RIG TYPE	ROT	DEPTHS		SPUD	85-06-24	SOUTH	-	m	BOT	393
CABLE TOP	-	KB ELEV	180.7	COMPTD	85-06-29	EAST	-	m	TRAY	7025
BOT	-	LOGGER	394.7	OFFCNF	85-07-29	WEST	-	m		
ROTRY TOP	40.3	DRILLER	395.0	WRKOVR	-	LAT	42-40-55			
BOT	395.0	DEEP END	-	ABNDND	-	LONG	79-41-45			
DRLG FLD	NaCl Brine	PLUG BK	384.0							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
332.0 – -	Show	-
336.0 – 341.0	3.804	4358
368.0 – 376.0	5.194	5467
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	101.8	CEM	0
178	25.3	140.2	CEM	0
114	17.3	389.8	CEM	0
60	6.9	366.0	HAN	366.0

COMPLETION DATA

GAS	5.194	10³m³/d
OIL	-	m³/d
SIP	5467	kPa
FORM	Whirlpool	
INTRVL	367.7 - 369.0	m
		m
		m
PERF ☒		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 – 394.0	CNFD	SCH
200.0 – 385.0	CBLK	"
299.0 – 384.0	CMPL	"
145.0 – 394.0	DLLM	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	
331.0 – 341.0	PRL	885	Y
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK			TOP		
	KB / LAKE LEVEL	6.0			SILURIAN	A2 ANHYDRITE	236.7		
	DRIFT / LAKE BOTTOM	40.3				A1 CARBONATE	237.5		
DEVONIAN	PORT LAMBTON					A1 SALT			
	KETTLE POINT					A1 ANHYDRITE			
	HAMILTON					GUELPH	239.3		
	MARCELLUS					ERAMOSA			
	DUNDEE					GOAT ISLAND			
	COLUMBUS					GASPORT/WIARTON	266.0		
	LUCAS					DECEW	293.7		
	AMHERSTBURG	85.8				ROCHESTER	309.6		
	SYLVANIA					IRONDEQUOIT	326.0		
	BOIS BLANC	101.8				REYNALES/FOSSIL HILL	328.2		
	SPRINGVALE					THOROLD	329.8		
	ORISKANY					GRIMSBY	331.8		
SILURIAN	BASS ISLANDS	115.4				CABOT HEAD	351.5		
	G SHALE	130.5				MANITOULIN			
	F SHALE	136.2				WHIRLPOOL	368.7		
	F SALT				ORDOVICIAN	QUEENSTON	374.2		
	E CARBONATE	162.3				BLUE MOUNTAIN - GEORG BAY			
	D SALT/EQUIVALENT	193.3				COLLINGWOOD			
	C SHALE	195.6				COBOURG			
	B MARKER	203.8				VERULAM			
	B EQUIVALENT					KIRKFIELD			
	B SALT					COBOCONK			
	B ANHYDRITE	218.8				GULL RIVER			
	A2 CARBONATE	221.8				SHADOW LAKE			
	A2 SALT				CAMBRIAN				
					PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY Haldimand	TWP Lake Erie	BLK 42	TRAC U	LOT –	CON –
WELL NAME Pembina #1 L.E. 42-U		PERMIT 6743		INIT CLASS DEV	
OPERATOR Pembina Exploration Co. Ltd.		TARGET CLI		CUR STATUS CP	

DRILLING DATA

CONTRACTOR	Pembina Resources Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	–	KB ELEV	181.2
BOT	–	LOGGER	400.5
ROTRY TOP	43.1	DRILLER	400.1
BOT	400.1	DEEP END	–
DRLG FLD	NaCl Brine	PLUG BK	394.0

DATES		COORDINATES		SAMPLES	
PERMIT	85-05-01	NORTH	– m	TOP	105.0
SPUD	85-06-24	SOUTH	– m	BOT	399.0
COMPTD	85-07-02	EAST	– m	TRAY	1504
OFFCNF	85-08-02	WEST	– m		
WRKOVR	–	LAT	42-40-36		
ABNDND	–	LONG	79-45-12		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
336.0 – 353.0	24.227	4735
372.0 – 379.0	.935	5482
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.4	104.3	CEM	0
178	25.3	155.9	CEM	0
114	17.3	397.9	CEM	0
60	6.9	334.7	HAN	334.7

COMPLETION DATA

GAS	24.227	10 ³m³/d
OIL		m³/d
SIP	4735	kPa
FORM	Grimsby	
INTRVL	337.7 - 351.3	m
		m
		m
PERF ☒		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
39.0 – 399.5	CNFD	Schlumberger
289.0 – 394.0	CMPL	"
158.0 – 400.0	DLLM	"
237.0 – 385.0	CBLK	"
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–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
283.0 –	–	SUL
–		
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CORING RECORD

INTERVAL	LOCATION	NO	
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	43.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	87.6		
	AMHERSTBURG	89.3		
	SYLVANIA			
	BOIS BLANC	104.5		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	119.4		
	G SHALE	134.2		
	F SHALE	139.7		
	F SALT			
	E CARBONATE	166.0		
	D SALT/EQUIVALENT	196.1		
	C SHALE	197.2		
	B MARKER	205.3		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	220.4		
	A2 CARBONATE	225.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	239.2		
	A1 CARBONATE	240.6		
	A1 SALT	-		
	A1 ANHYDRITE	-		
	GUELPH	242.5		
	ERAMOSA	-		
	GOAT ISLAND			
	GASPORT/WIARTON	263.7		
	DECEW	298.2		
	ROCHESTER	312.6		
	IRONDEQUOIT	329.7		
	REYNALES/FOSSIL HILL	332.0		
	THOROLD	334.0		
	GRIMSBY	335.1		
	CABOT HEAD	351.6		
	MANITOULIN			
	WHIRLPOOL	373.8		
ORDOVICIAN	QUEENSTON	377.5		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY Haldimand	TWP Lake Erie	BLK 42	TRAC V	LOT	CON
WELL NAME Pembina #2 Lake Erie 42-V		PERMIT 6750		INIT CLASS DEV	
OPERATOR Pembina Exploration Co. Ltd.		TARGET CLI		CUR STATUS CP	

DRILLING DATA

CONTRACTOR	Pembina Resources Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	180.8
BOT		LOGGER	397.5
ROTRY TOP	42.9	DRILLER	398.0
BOT	398.0	DEEP END	
DRLG FLD	NaCl Brine	PLUG BK	

DATES		COORDINATES		SAMPLES	
PERMIT	1985-05-01	NORTH	m	TOP	93.0
SPUD	1985-05-08	SOUTH	m	BOT	399.0
COMPTD	1985-05-13	EAST	m	TRAY	1626
OFFCNF	1985-06-13	WEST	m		
WRKOVR		LAT	42-40-33.9		
ABNDND		LONG	79-46-56.4		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
340.0 – 349.0	12.363	4773
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	88.2	CEM	
178	25.3	145.3	CEM	
114	17.3	391.3	CEM	
60	6.9	380.3	CEM	380.3

COMPLETION DATA

GAS	12.363	10 ³m³/d
OIL		m³/d
SIP	4773	kPa
FORM	Grimsby	
INTRVL	342.7- 347.0	m
		m
		m
PERF ☑		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
290.0 – 378.7	CMPL	Schlumberger
146.0 – 397.0	DLLM	"
30.0 – 397.0	RFT	"
31.8 – 389.5	CNFD	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.1		
	DRIFT / LAKE BOTTOM	42.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC	106.8		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	116.5		
	G SHALE	130.5		
	F SHALE	135.8		
	F SALT			
	E CARBONATE	158.5		
	D SALT/EQUIVALENT			
	C SHALE	196.3		
	B MARKER	196.3		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	217.3		
	A2 CARBONATE	223.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	237.3		
	A1 CARBONATE	238.3		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	243.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	306.2		
	IRONDEQUOIT	326.1		
	REYNALES/FOSSIL HILL	327.4		
	THOROLD	330.8		
	GRIMSBY	332.2		
	CABOT HEAD	347.1		
	MANITOULIN			
	WHIRLPOOL	370.2		
ORDOVICIAN	QUEENSTON	374.8		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY	Haldimand	TWP	Lake Erie	BLK	42	TRAC	V	LOT	-
WELL NAME	Pembina #4 L.E. 42-V			PERMIT	6853	INIT CLASS	DEV	CON	-
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	CP		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-08-20	NORTH	- m	TOP	98.0
RIG TYPE	ROT	DEPTHS		SPUD	85-09-01	SOUTH	- m	BOT	393.0
CABLE TOP	-	KB ELEV	180.7	COMPTD	85-09-07	EAST	- m	TRAY	5684
BOT	-	LOGGER	405.5	OFFCNF	85-10-07	WEST	- m		
ROTRY TOP	42.8	DRILLER	405.7	WRKOVR		LAT	42-40-09		
BOT	405.7	DEEP END	-	ABNDND		LONG	79-46-04		
DRLG FLD	NaCl Brine	PLUG BK	386.7						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
348.0 – 355.0	21.141	4729
375.0 – 382.0	10.818	5435
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	95.5	CEM	0
178	25.3	151.5	CEM	0
114	17.3	396.2	CEM	0
60	6.9	375.3	HAN	375.3

COMPLETION DATA

GAS	10.818	$10^3 m^3/d$
OIL	-	m^3/d
SIP	5435	kPa
FORM	Whirlpool	
INTRVL	377.9 - 378.6	m
		m
		m

PERF ☒ OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 – 405.0	CNFD	SCH
325.0 – 384.0	CMPL	"
155.0 – 405.0	DLLM	"
235.0 – 390.0	CBLK	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	42.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	85.8		
	AMHERSTBURG	88.9		
	SYLVANIA			
	BOIS BLANC	106.1		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	120.5		
	G SHALE	134.7		
	F SHALE	140.2		
	F SALT			
	E CARBONATE	167.0		
	D SALT/EQUIVALENT	198.2		
	C SHALE	200.2		
	B MARKER	208.2		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	223.0		
	A2 CARBONATE	227.5		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	242.0		
	A1 CARBONATE	243.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	246.0		
	ERAMOSA			
	GOAT ISLAND	253.0		
	GASPORT/WIARTON	265.0		
	DECEW	302.9		
	ROCHESTER	314.5		
	IRONDEQUOIT	332.2		
	REYNALES/FOSSIL HILL	334.5		
	THOROLD	335.6		
	GRIMSBY	337.6		
	CABOT HEAD	354.8		
	MANITOULIN			
	WHIRLPOOL	375.4		
ORDOVICIAN	QUEENSTON	380.7		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY	Haldimand	TWP	Lake Erie	BLK	43	TRAC	A-4	LOT	-
WELL NAME	Place Rainham L.E. 43-A-4			PERMIT	6844	INIT CLASS	DEV	CON	-
OPERATOR	Place Gas & Oil Co. Ltd.			TARGET	CLI	CUR STATUS	GP		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	85-08-08	NORTH	- m	TOP	-
RIG TYPE	CAB	DEPTHS		SPUD	85-08-10	SOUTH	- m	BOT	-
CABLE TOP	30.8	KB ELEV	182.3	COMPTD	85-08-22	EAST	- m	TRAY	-
BOT	304.0	LOGGER	-	OFFCNF	85-09-22	WEST	- m		
ROTRY TOP	-	DRILLER	304.0	WRKOVR		LAT	42-44-53		
BOT	-	DEEP END	-	ABNDND		LONG	70-50-29		
DRLG FLD	-	PLUG BK	-						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
289.9 – 291.4	0.68	2861
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	45.3	SHO	30.5
114	14.1	284.4	BHP	30.5

COMPLETION DATA

GAS	0.68	$10^3 m^3/d$
OIL	-	m^3/d
SIP	2861	kPa
FORM	Thorold	
INTRVL	289.9 - 291.4	m
		m
		m

PERF ☐ OPEN HOLE ☒

REMARKS

Only operator picks are available.

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	7.6		
	DRIFT / LAKE BOTTOM	30.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	262.7		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD	284.4		
	GRIMSBY	292.3		
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY	Haldimand	TWP	Lake Erie	BLK	43	TRAC	B-2	LOT	-	CON	-
WELL NAME	Place Rainham L.E. 43-B-2			PERMIT	6838	INIT CLASS	DEV				
OPERATOR	Place Gas & Oil Co. Ltd.			TARGET	CLI	CUR STATUS	GP				

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	85-08-08	NORTH	-	m	TOP	-
RIG TYPE	CAB	DEPTHS		SPUD	85-08-22	SOUTH	-	m	BOT	-
CABLE TOP	29.3	KB ELEV	182.3	COMPTD	85-09-02	EAST	-	m	TRAY	-
BOT	282.5	LOGGER	-	OFFCNF	85-10-02	WEST	-	m		
ROTRY TOP	-	DRILLER	282.5	WRKOVR		LAT	42-44-45			
BOT	-	DEEP END	-	ABNDND		LONG	79-51-31			
DRLG FLD	-	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
290.2 – 292.3	.227	-
292.3 – 294.7	1.558	-
294.7 – 299.0	1.728	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	44.5	SHO	29.0
114	14.1	282.5	BHP	28.0

COMPLETION DATA

GAS	1.728	$10^3 m^3/d$
OIL	-	m^3/d
SIP	2827	kPa
FORM	Grimsby	
INTRVL	294.7 - 299.0	m
		m
		m
PERF ☐	OPEN HOLE ☒	

REMARKS

Only operator picks are available.

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
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–			
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–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	7.6		
	DRIFT / LAKE BOTTOM	29.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	260.9		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY	289.0		
	CABOT HEAD	303.6		
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY	Haldimand	TWP	Lake Erie	BLK	43	TRAC	C-2	LOT	-	CON	-
WELL NAME	Place Rainham L.E. 43-C-2			PERMIT	6881	INIT CLASS	DEV				
OPERATOR	Place Gas & Oil Co. Ltd.			TARGET	CLI	CUR STATUS	GP				

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	85-08-29	NORTH	-	m	TOP	-
RIG TYPE	CABLE	DEPTHS		SPUD	85-09-02	SOUTH	-	m	BOT	-
CABLE TOP	28.3	KB ELEV	182.3	COMPTD	85-09-14	EAST	-	m	TRAY	-
BOT	304.4	LOGGER	-	OFFCNF	85-10-14	WEST	-	m		
ROTRY TOP	-	DRILLER	304.4	WRKOVR		LAT	42-44-46			
BOT	-	DEEP END	-	ABNDND		LONG	79-52-46			
DRLG FLD	-	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
291.7 – 294.7	0.14	-
294.7 – 299.0	0.22	-
299.0 – 302.1	0.70	-
302.1 – 302.7	0.77	-
302.7 – 303.6	3.87	2965
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	37.2	SHO	27.7
114	14.1	284.4	BHP	27.7
25	-	304.2	OTH	27.4

COMPLETION DATA

GAS	3.85	$10^3 m^3/d$
OIL	-	m^3/d
SIP	2965	kPa
FORM	Grimsby	
INTRVL	302.7 - 303.6	m
		m
		m
PERF ☐	OPEN HOLE ☒	

REMARKS

Only operator picks are available.

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	7.6		
	DRIFT / LAKE BOTTOM	28.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	262.1		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD	284.4		
	GRIMSBY	291.4		
	CABOT HEAD	303.6		
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY Debra K. Parker

CTY	Haldimand	TWP	Lake Erie	BLK	43	TRAC	Y	LOT	-
CON	-								
WELL NAME	Pembina #2 L. E. 43-Y			PERMIT	6802	INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	CP		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-06-05	NORTH	- m	TOP	78.0
RIG TYPE	ROT	DEPTHS		SPUD	85-08-14	SOUTH	- m	BOT	399.0
CABLE TOP		KB ELEV	180.7	COMPTD	85-08-20	EAST	- m	TRAY	5386
BOT		LOGGER	398.4	OFFCNF	85-09-20	WEST	- m		
ROTRY TOP	38.6	DRILLER	399.0	WRKOVR		LAT	42-40-42		
BOT	399.0	DEEP END	-	ABNDND		LONG	79-54-36		
DRLG FLD	NaCl Brine	PLUG BK	381.0						

INITIAL GAS RECORD		
INTERVAL	FLOW	SIP
329.0 – 347.0	9.345	4340
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CASING AND TUBING RECORD				
DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	76.3	CEM	0
178	25.3	129.9	CEM	0
114	17.3	392.0	CEM	0
60	6.9	330.9	HAN	330.92

COMPLETION DATA		
GAS	9.345	$10^3 m^3/d$
OIL	-	m^3/d
SIP	4340	kPa
FORM	Grimsby	
INTRVL	334.4 - 345.0	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD		
INTERVAL	FLOW	DENSITY
78.0 – -	Show	-
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LOGGING RECORD		
INTERVAL	TYPE	COMPANY
30.0 – 398.0	CNFD	SCH
300.0 – 380.0	CMPL	"
30.0 – 398.0	DLLM	"
30.0 – 398.0	CBLK	"
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INITIAL WATER RECORD		
INTERVAL	STAT LEV	TYPE
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CORING RECORD			
INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	38.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	63.0		
	AMHERSTBURG	72.7		
	SYLVANIA			
	BOIS BLANC	91.3		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	107.0		
	G SHALE	122.9		
	F SHALE	128.0		
	F SALT			
	E CARBONATE	154.6		
	D SALT/EQUIVALENT	185.4		
	C SHALE	187.1		
	B MARKER	194.8		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	208.8		
	A2 CARBONATE	213.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	226.0		
	A1 CARBONATE	226.8		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	228.6		
	ERAMOSA			
	GOAT ISLAND	237.2		
	GASPORT/WIARTON	244.2		
	DECEW	293.6		
	ROCHESTER	307.5		
	IRONDEQUOIT	324.8		
	REYNALES/FOSSIL HILL	325.7		
	THOROLD	328.2		
	GRIMSBY	328.9		
	CABOT HEAD	345.0		
	MANITOULIN			
	WHIRLPOOL	367.7		
ORDOVICIAN	QUEENSTON	369.7		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY	Norfolk	TWP	Lake Erie	BLK	48	TRAC	S-4	LOT	-
CON	-								
WELL NAME	Place Charlotteville L. G. 48-S-4			PERMIT	6677	INIT CLASS	DEV		
OPERATOR	Place Gas & Oil Co. Ltd.			TARGET	CLI	CUR STATUS	CP		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Place Gas & Oil Co. Ltd.			PERMIT	85-08-08	NORTH	- m	TOP	-
RIG TYPE	CAB	DEPTHS		SPUD	85-07-22	SOUTH	- m	BOT	-
CABLE TOP	13.0	KB ELEV	178.7	COMPTD	85-09-04	EAST	- m	TRAY	-
BOT	354.8	LOGGER	-	OFFCNF	85-10-04	WEST	- m		
ROTRY TOP	-	DRILLER	354.8	WRKOVR	-	LAT	42-41-15		
BOT	-	DEEP END	-	ABNDND	-	LONG	80-16-15		
DRLG FLD	-	PLUG BK	-						

INITIAL GAS RECORD		
INTERVAL	FLOW	SIP
352.0 –	.57	-
352.0 – 353.3	9.04	-
353.3 – 353.9	9.72	-
353.9 – 354.5	11.60	
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CASING AND TUBING RECORD				
DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	53.3	SHO	12.7
114	14.1	342.3	BHP	12.8
25	-	354.2	HAN	12.8

COMPLETION DATA		
GAS	11.6	$10^3 m^3/d$
OIL	-	m^3/d
SIP	3792	kPa
FORM	Grimsby	
INTRVL	353.9 - 354.5	m
		m
		m
PERF ☐	OPEN HOLE ☒	

REMARKS

Only operator picks are available.
No samples.

INITIAL OIL RECORD		
INTERVAL	FLOW	DENSITY
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LOGGING RECORD		
INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD		
INTERVAL	STAT LEV	TYPE
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CORING RECORD			
INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	4.0		
	DRIFT / LAKE BOTTOM	13.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	322.5		
	IRONDEQUOIT	341.4		
	REYNALES/FOSSIL HILL			
	THOROLD	345.9		
	GRIMSBY	349.0		
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY	Norfolk	TWP	Lake Erie	BLK	48	TRAC	V-1	LOT	-
CON	-	WELL NAME	Place Charlotteville L.E. 48-V-1	PERMIT	6888	INIT CLASS	DEV		
OPERATOR	Place Gas & Oil Co. Ltd.	TARGET	CLI	CUR STATUS	GP				

DRILLING DATA			
CONTRACTOR	Place Gas & Oil Co. Ltd.	DEPTHS	
RIG TYPE	CABLE	KB ELEV	179.0
CABLE TOP	13.4	LOGGER	-
BOT	362.7	DRILLER	362.7
ROTRY TOP	-	DEEP END	-
BOT	-	PLUG BK	-
DRLG FLD	-		

DATES		COORDINATES		SAMPLES	
PERMIT	85-09-19	NORTH	- m	TOP	-
SPUD	85-09-16	SOUTH	- m	BOT	-
COMPTD	85-10-25	EAST	- m	TRAY	-
OFFCNF	85-11-25	WEST	- m		
WRKOVR		LAT	42-40-41		
ABNDND		LONG	80-16-16		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
351.4 – 354.5	0.567	2896
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	54.9	SHO	13.4
114	14.1	346.3	BHP	13.7
25	-	361.2	OTH	13.4

COMPLETION DATA

GAS	0.567	10 ³m³/d
OIL	-	m³/d
SIP	2896	kPa
FORM	Grimsby	
INTRVL	351.4 - 354.5	m
		m
		m
PERF ☐	OPEN HOLE ☒	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

Only operator picks are available.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	4.3		
	DRIFT / LAKE BOTTOM	13.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WHARTON			
	DECEW			
	ROCHESTER	323.4		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD	346.3		
	GRIMSBY	351.4		
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY	Elgin	TWP	Lake Erie	BLK	55	TRAC	I	LOT	
CON		WELL NAME	Consumers' 13882 L.E. 55-1	PERMIT	6756	INIT CLASS	DEV		
OPERATOR	The Consumers' Gas Company Ltd.	TARGET	CLI	CUR STATUS	OS -ABD				

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.	DEPTHS	
RIG TYPE	ROT	KB ELEV	181.0
CABLE TOP		LOGGER	
BOT		DRILLER	86.0
ROTRY TOP	20.1	DEEP END	
BOT	86.0	PLUG BK	
DRLG FLD			

DATES		COORDINATES		SAMPLES	
PERMIT	1985-05-01	NORTH	m	TOP	
SPUD	1985-05-10	SOUTH	m	BOT	
COMPTD	1985-05-11	EAST	m	TRAY	
OFFCNF	1985-06-11	WEST	m		
WRKOVR		LAT	42-38-01		
ABNDND	1985-05-11	LONG	80-56-27.4		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	20.1	HAN	20.1
244	53.6	66.8	CEM	

COMPLETION DATA

GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
86.0 –	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.3		
	DRIFT / LAKE BOTTOM	20.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	64.1		
	COLUMBUS	78.7		
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WHARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY Elgin	TWP Lake Erie	BLK 55	TRAC P	LOT	CON
WELL NAME Consumers' 13881 L.E, -55-P		PERMIT 6755		INIT CLASS NPW	
OPERATOR The Consumers' Gas Company Ltd.		TARGET CLI		CUR STATUS DHABD	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1985-05-01	NORTH		m	TOP	73.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-05-07	SOUTH		m	BOT	492.0
CABLE TOP		KB ELEV	181.1	COMPTD	1985-05-09	EAST		m	TRAY	5900
BOT		LOGGER	491.5	OFFCNF	1986-05-09	WEST		m		
ROTRY TOP	22.0	DRILLER	491.0	WRKOVR		LAT	42-36-23.4			
BOT	491.0	DEEP END		ABNDND	1985-05-10	LONG	80-59-49.5			
DRLG FLD	Polybrine	PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	22.0	HAN	22.0
244	53.6	73.4	CEM	
178	29.8	167.7	CEM	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
34.0 – 481.3	CNFD	Schlumberger
170.0 – 491.0	DLLM	"
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	22.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS	68.5		
	DUNDEE	73.7		
	COLUMBUS			
	LUCAS	103.2		
	AMHERSTBURG	122.0		
	SYLVANIA			
	BOIS BLANC	153.8		
	SPRINGVALE			
	ORISKANY	189.3		
SILURIAN	BASS ISLANDS	192.0		
	G SHALE	219.8		
	F SHALE	228.2		
	F SALT			
	E CARBONATE	257.4		
	D SALT/EQUIVALENT	289.7		
	C SHALE	291.8		
	B MARKER	299.2		
	B EQUIVALENT	305.6		
	B SALT			
	B ANHYDRITE	314.7		
	A2 CARBONATE	318.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	333.0		
	A1 CARBONATE	335.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	347.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	418.0		
	ROCHESTER	427.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	435.5		
	THOROLD	441.3		
	GRIMSBY	443.0		
	CABOT HEAD	453.2		
	MANITOULIN	468.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	474.3		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Norfolk	TWP Lake Erie	BLK 62	TRAC T	LOT -	CON -
WELL NAME Pembina #4 L.E, 62-T		PERMIT 6794		INIT CLASS DEV	
OPERATOR Pembina Exploration Co. Ltd.		TARGET CI.I		CUR STATUS DH-ABD	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-06-05	NORTH	-	m	TOP	111.0
RIG TYPE	ROT	DEPTHS		SPUD	85-08-01	SOUTH	-	m	BOT	453.0
CABLE TOP	-	KB ELEV	181.0	COMPTD	85-08-10	EAST	-	m	TRAY	3280
BOT	-	LOGGER	452.0	OFFCNF	85-09-10	WEST	-	m		
ROTRY TOP	13.6	DRILLER	452.7	WRKOVR	-	LAT	42-36-18			
BOT	452.7	DEEP END	-	ABNDND	85-08-09	LONG	80-15-24			
DRLG FLD	NaCl Brine	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	110.9	CEM	0
178	25.3	165.2	CEM	0

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
138.0 – -	Show	-
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
10.0 – 452.0	CNFD	SCH
275.0 – 452.0	CBLK	"
160.0 – 452.0	DLLM	"
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
327.0 – -	-	SUL
–		
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CORING RECORD

INTERVAL	LOCATION	NO	
387.5 – 391.5	PRL	914	Y
392.7 – 398.2	PRL	914	Y
398.2 – 407.3	PRL	914	Y
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–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.3		
	DRIFT / LAKE BOTTOM	13.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	94.8		
	COLUMBUS			
	LUCAS	98.1		
	AMHERSTBURG	118.7		
	SYLVANIA			
	BOIS BLANC	140.5		
	SPRINGVALE			
	ORISKANY	165.0		
SILURIAN	BASS ISLANDS	168.0		
	G SHALE	189.0		
	F SHALE	196.0		
	F SALT			
	E CARBONATE	222.5		
	D SALT/EQUIVALENT	253.2		
	C SHALE	255.5		
	B MARKER	262.7		
	B EQUIVALENT	268.0		
	B SALT			
	B ANHYDRITE	276.0		
	A2 CARBONATE	282.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	292.8		
	A1 CARBONATE	293.7		
	A1 SALT			
	A1 ANHYDRITE	298.7		
	GUELPH	299.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	352.6		
	ROCHESTER	372.5		
	IRONDEQUOIT	381.7		
	REYNALES/FOSSIL HILL	383.5		
	THOROLD	385.4		
	GRIMSBY	389.2		
	CABOT HEAD	403.8		
	MANITOULIN			
	WHIRLPOOL	421.6		
ORDOVICIAN	QUEENSTON	427.1		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY Debra K Parker

CTY	Norfolk	TWP	Lake Erie	BLK	63	TRAC	X	LOT -	CON -
WELL NAME	Pembina #4 L.E. 63-X			PERMIT	6795	INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	DH-ABD		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-06-05	NORTH	- m	TOP	108.0
RIG TYPE	ROT	DEPTHS		SPUD	85-07-30	SOUTH	- m	BOT	471.0
CABLE TOP	-	KB ELEV	180.9	COMPTD	85-08-02	EAST	- m	TRAY	8148
BOT	-	LOGGER	471.8	OFFCNF	85-09-02	WEST	- m		
ROTRY TOP	14.2	DRILLER	471.8	WRKOVR	-	LAT	42-35-21		
BOT	471.8	DEEP END	-	ABNDND	85-08-03	LONG	80-13-18		
DRLG FLD	NaCl Brine	PLUG BK	-						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	107.3	CEM	0
178	25.3	154.4	CEM	0

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
270.0 – 460.0	CBLK	SCH
12.0 – 471.0	CNFD	"
160.0 – 471.0	DLLM	"
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
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–			
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–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK			
	KB / LAKE LEVEL	6.2			SILURIAN	A2 ANHYDRITE	294.4
	DRIFT / LAKE BOTTOM	14.2				A1 CARBONATE	295.0
DEVONIAN	PORT LAMBTON					A1 SALT	
	KETTLE POINT					A1 ANHYDRITE	300.0
	HAMILTON					GUELPH	301.6
	MARCELLUS					ERAMOSA	
	DUNDEE	95.3				GOAT ISLAND	325.3
	COLUMBUS					GASPORT/WIARTON	
	LUCAS	102.1				DECEW	359.9
	AMHERSTBURG	117.0				ROCHESTER	383.0
	SYLVANIA					IRONDEQUOIT	393.2
	BOIS BLANC	137.5				REYNALES/FOSSIL HILL	394.5
	SPRINGVALE	159.1				THOROLD	396.6
	ORISKANY					GRIMSBY	400.4
SILURIAN	BASS ISLANDS	164.8				CABOT HEAD	411.8
	G SHALE	191.0				MANITOULIN	
	F SHALE	197.7				WHIRLPOOL	435.5
	F SALT				ORDOVICIAN	QUEENSTON	437.0
	E CARBONATE	224.6				BLUE MOUNTAIN - GEORG. BAY	
	D SALT/EQUIVALENT	255.5				COLLINGWOOD	
	C SHALE	256.8				COBOURG	
	B MARKER	264.8				VERULAM	
	B EQUIVALENT	270.4				KIRKFIELD	
	B SALT					COBOCONK	
	B ANHYDRITE	278.0				GULL RIVER	
	A2 CARBONATE	283.6				SHADOW LAKE	
	A2 SALT					CAMBRIAN	
						PRECAMBRIAN	

GEOLOGY BY: Debra K. Parker

CTY	Norfolk	TWP	Lake Erie	BLK	64	TRAC	A	LOT -	CON -
WELL NAME	Pembina #4 L. E. 64-A			PERMIT	6828	INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	GP		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-06-25	NORTH	- m	TOP	72.0
RIG TYPE	ROT	DEPTHS		SPUD	85-07-24	SOUTH	- m	BOT	414.0
CABLE TOP	-	KB ELEV	180.8	COMPTD	85-07-29	EAST	- m	TRAY	5743
BOT	-	LOGGER	413.9	OFFCNF	85-08-29	WEST	- m		
ROTRY TOP	35.6	DRILLER	414.2	WRKOVR		LAT	42-39-09		
BOT	414.2	DEEP END	-	ABNDND		LONG	80-05-14		
DRLG FLD	NaCl Brine	PLUG BK	397.1						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
290.0 – -	Show	-
347.0 – 356.0	12.139	4435
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	67.1	CEM	0
178	25.3	119.6	CEM	0
114	17.3	407.7	CEM	0
60	6.9	396.7	HAN	396.7

COMPLETION DATA

GAS	12.139	10³m³/d
OIL	-	m³/d
SIP	4435	kPa
FORM	Grimsby	
INTRVL	349.0 - 355.0	m
		m
		m
PERF ☒		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
295.0 – 396.0	CMPL	SCH
123.0 – 413.0	DLLM	"
194.0 – 390.0	CBLK	"
33.0 – 413.0	CNFD	"
–		
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
290.0 – -	-	SUL
–		
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–		
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–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK			
	KB / LAKE LEVEL	6.1			SILURIAN	A2 ANHYDRITE	
	DRIFT / LAKE BOTTOM	35.6				A1 CARBONATE	215.3
DEVONIAN	PORT LAMBTON					A1 SALT	
	KETTLE POINT					A1 ANHYDRITE	
	HAMILTON					GUELPH	219.0
	MARCELLUS					ERAMOSA	
	DUNDEE					GOAT ISLAND	
	COLUMBUS					GASPORT/WIARTON	
	LUCAS	49.4				DECEW	304.5
	AMHERSTBURG	59.9				ROCHESTER	323.9
	SYLVANIA					IRONDEQUOIT	339.4
	BOIS BLANC	84.3				REYNALES/FOSSIL HILL	340.7
	SPRINGVALE					THOROLD	342.6
	ORISKANY					GRIMSBY	347.2
SILURIAN	BASS ISLANDS	93.3				CABOT HEAD	355.0
	G SHALE	119.0				MANITOULIN	
	F SHALE	124.2				WHIRLPOOL	382.5
	F SALT				ORDOVICIAN	QUEENSTON	384.7
	E CARBONATE	151.2				BLUE MOUNTAIN - GEORG. BAY	
	D SALT/EQUIVALENT	180.5				COLLINGWOOD	
	C SHALE	183.0				COBOURG	
	B MARKER	190.2				VERULAM	
	B EQUIVALENT	195.2				KIRKFIELD	
	B SALT					COBOCONK	
	B ANHYDRITE	202.6				GULL RIVER	
	A2 CARBONATE	206.8				SHADOW LAKE	
	A2 SALT					CAMBRIAN	
						PRECAMBRIAN	

GEOLOGY BY: Debra K. Parker

CTY	Norfolk	TWP	Lake Erie	BLK 64	TRAC J	LOT	CON
WELL NAME	Pembina #4 L.E. 64-J			PERMIT	6741	INIT CLASS	DEV
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	GP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	1985-05-01	NORTH	m	TOP	75.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-05-19	SOUTH	m	BOT	418.0
CABLE TOP		KB ELEV	180.8	COMPTD	1985-05-23	EAST	m	TRAY	6124
BOT		LOGGER	418.0	OFFCNF	1985-06-23	WEST	m		
ROTRY TOP	38.4	DRILLER		WRKOVR		LAT	42-38-09.2		
BOT	418.3	DEEP END		ABNDND		LONG	80-05-10.5		
DRLG FLD	NaCl BRINE	PLUG BK	400.5						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
365.0 – 371.5	3.746	4528
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	71.3	CEM	
178	25.3	121.2	CEM	
114	17.3	411.8	CEM	
60	6.9	401.0	HAN	401.0

COMPLETION DATA

GAS	3.746	$10^3m^3/d$
OIL		m^3/d
SIP	4528	kPa
FORM	Grimsby	
INTRVL	367.2-368.8	m
		m
		m
PERF ☒		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
340.0 – 410.0	RFT	Schlumberger
205.0 – 405.0	CBLK	"
300.0 – 400.0	CMPL	"
417.0 – 122.0	DLLM	"
30.0 – 417.0	CNFD	"
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
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–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.1		
	DRIFT / LAKE BOTTOM	38.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	62.8		
	COLUMBUS			
	LUCAS	76.6		
	AMHERSTBURG	88.8		
	SYLVANIA			
	BOIS BLANC	103.5		
	SPRINGVALE	113.8		
	ORISKANY			
SILURIAN	BASS ISLANDS	118.5		
	G SHALE	143.0		
	F SHALE	148.7		
	F SALT			
	E CARBONATE	175.5		
	D SALT/EQUIVALENT	207.4		
	C SHALE	209.5		
	B MARKER	217.3		
	B EQUIVALENT	222.6		
	B SALT			
	B ANHYDRITE	229.5		
	A2 CARBONATE	234.7		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	242.7		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	247.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	320.0		
	ROCHESTER	337.2		
	IRONDEQUOIT	352.2		
	REYNALES/FOSSIL HILL	353.4		
	THOROLD	355.5		
	GRIMSBY	357.9		
	CABOT HEAD	370.0		
	MANITOULIN			
	WHIRLPOOL	395.1		
ORDOVICIAN	QUEENSTON	396.6		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY	Norfolk	TWP	Lake Erie	BLK 65	TRAC D	LOT –	CON –
WELL NAME	Pembina #3 L. E. 65-D			PERMIT	6827	INIT CLASS	DEV
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	GP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-06-25	NORTH	– m	TOP	60.0
RIG TYPE	ROT	DEPTHS		SPUD	85-07-16	SOUTH	– m	BOT	387.0
CABLE TOP	–	KB ELEV	180.8	COMPTD	85-07-23	EAST	– m	TRAY	1337
BOT	–	LOGGER	386.7	OFFCNF	85-08-23	WEST	– m		
ROTRY TOP	36.8	DRILLER	387.0	WRKOVR		LAT	42-39-20		
BOT	387.0	DEEP END	–	ABNDND		LONG	80-03-51		
DRLG FLD	NaCl Brine	PLUG BK	380.3						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
310.0 – –	Show	–
332.0 – 337.0	3.378	4376
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	58.5	CEM	0
178	25.3	135.6	CEM	0
114	17.3	383.2	CEM	0
60	6.9	330.8	HAN	330.8

COMPLETION DATA

GAS	3.378	$10^3m^3/d$
OIL	–	m^3/d
SIP	4376	kPa
FORM	Thorold	
INTRVL	334.0 - 335.2	m
		m
		m
PERF ☒		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 – 386.0	CNFD	SCH
143.0 – 386.0	DLLM	"
279.0 – 379.0	CMPL	"
190.0 – 377.0	CBLK	"
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
76.0 – –	–	SUL
310.0 – –	–	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.1		
	DRIFT / LAKE BOTTOM	36.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	46.5		
	AMHERSTBURG	55.3		
	SYLVANIA			
	BOIS BLANC	77.3		
	SPRINGVALE	89.8		
	ORISKANY			
SILURIAN	BASS ISLANDS	95.6		
	G SHALE	119.0		
	F SHALE	124.2		
	F SALT			
	E CARBONATE	150.7		
	D SALT/EQUIVALENT	180.5		
	C SHALE	182.5		
	B MARKER	189.5		
	B EQUIVALENT	195.8		
	B SALT			
	B ANHYDRITE	203.8		
	A2 CARBONATE	207.6		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	220.6		
	A1 CARBONATE	222.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	224.4		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	300.2		
	ROCHESTER	314.0		
	IRONDEQUOIT	329.4		
	REYNALES/FOSSIL HILL	330.8		
	THOROLD	332.7		
	GRIMSBY	338.7		
	CABOT HEAD	347.0		
	MANITOULIN			
	WHIRLPOOL	371.6		
ORDOVICIAN	QUEENSTON	374.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GLOLOGY BY Debra K. Parker

CTY: Norfolk	TWP: Lake Erie	BLK: 65	TRAC: 0	LOT: -	CON:
WELL NAME: Pembina #3 Lake Erie 65-0		PERMIT: 6848		INIT CLASS: DEV	
OPERATOR: Pembina Exploration Co. Ltd.		TARGET: CLI		CUR STATUS: GS-ABD	

DRILLING DATA			
CONTRACTOR:	Pembina Resources Limited		
RIG TYPE:	ROT	DEPTHS	
CABLE TOP:	-	KB ELEV:	180.7
BOT:	-	LOGGER:	443.0
ROTRY TOP:	40.1	DRILLER:	443.0
BOT:	443.0	DEEP END:	-
DRLG FLD:	BRINE	PLUG BK:	-

DATES		COORDINATES			SAMPLES	
PERMIT:	85-08-19	NORTH:	-	m	TOP:	93
SPUD:	85-08-21	SOUTH:	-	m	BOT:	443
COMPTD:	85-08-24	EAST:	-	m	TRAY:	5542
OFFCNF:	85-09-23	WEST:	-	m		
WRKOVR:	-	LAT:	42-37-07			
ABNDND:	85-08-24	LONG:	80-04-46			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
381.0 – -	-	-
412.0 – -	-	-
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	92.0	CEM	0
178	25.3	143.9	CEM	0

COMPLETION DATA

GAS:	10 ³m³/d
OIL:	m³/d
SIP:	kPa
FORM:	
INTRVL:	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
29.0 – 434.5	GRL	SCH
29.0 – 438.0	CNL	"
49.0 – 442.0	DENL	"
291.0 – 435.0	CBLK	"
146.0 – 439.0	LATL	"
146.0 – 442.0	MSFL	"
–		

REMARKS

Top of Amherstberg uncertain - picked as Lucas by operator - no samples.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	40.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	78.2		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	91.3		
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY	129.0		
SILURIAN	BASS ISLANDS	132.8		
	G SHALE	159.8		
	F SHALE	166.7		
	F SALT			
	E CARBONATE	202.4		
	D SALT/EQUIVALENT			
	C SHALE	226.0		
	B MARKER	233.3		
	B EQUIVALENT	238.8		
	B SALT			
	B ANHYDRITE	245.9		
	A2 CARBONATE	250.0		
	A2 SALT			
	A2 ANHYDRITE			
	A1 CARBONATE	261.3		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	263.7		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	332.7		
	ROCHESTER	351.5		
	IRONDEQUOIT	367.3		
	REYNALES/FOSSIL HILL	368.7		
	THOROLD	370.9		
	GRIMSBY	374.2		
	CABOT HEAD	385.0		
	MANITOULIN			
	WHIRLPOOL	410.4		
ORDOVICIAN	QUEENSTON	413.7		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY: Norfolk	TWP: Lake Erie	BLK: 65	TRAC: P	LOT: -	CON: -
WELL NAME: Pembina #4 Lake Erie 65-P		PERMIT: 6849		INIT CLASS: DEV	
OPERATOR: Pembina Exploration Co. Ltd.		TARGET: CLI		CUR STATUS: GS-ABD	

DRILLING DATA			
CONTRACTOR:	Pembina Resources Limited		
RIG TYPE:	ROT	DEPTHS	
CABLE TOP:	-	KB ELEV:	180.4
BOT:	-	LOGGER:	445.1
ROTRY TOP:	40.3	DRILLER:	445.0
BOT:	445.0	DEEP END:	-
DRLG FLD:	BRINE	PLUG BK:	-

DATES		COORDINATES			SAMPLES	
PERMIT:	85-08-19	NORTH:	-	m	TOP:	105
SPUD:	85-08-25	SOUTH:	-	m	BOT:	444
COMPTD:	85-08-29	EAST:	-	m	TRAY:	1516
OFFCNF:	85-09-28	WEST:	-	m		
WRKOVR:	-	LAT:	42-36-17			
ABNDND:	85-08-29	LONG:	80-04-06			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
165.0 – -	-	-
386.0 – -	-	-
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	99.2	CEM	0
178	25.3	149.4	CEM	0

COMPLETION DATA

GAS:	10 ³m³/d
OIL:	m³/d
SIP:	kPa
FORM:	
INTRVL:	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 – 437.0	GRL	SCH
35.0 – 439.5	CNL	"
44.5 – 444.5	DENL	"
154.5 – 440.5	LATL	"
154.5 – 444.5	MSFL	"
245.0 – 425.0	CBLK	"
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	5.7		
	DRIFT / LAKE BOTTOM	40.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	90.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	106.5		
	SYLVANIA			
	BOIS BLANC	129.0		
	SPRINGVALE			
	ORISKANY	138.0		
SILURIAN	BASS ISLANDS	144.0		
	G SHALE	174.2		
	F SHALE	180.6		
	F SALT			
	E CARBONATE	215.3		
	D SALT/EQUIVALENT			
	C SHALE	237.7		
	B MARKER	246.2		
	B EQUIVALENT	251.7		
	B SALT			
	B ANHYDRITE	259.2		
	A2 CARBONATE	263.9		
	A2 SALT			
	A2 ANHYDRITE			
	A1 CARBONATE	274.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	276.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON	321.5		
	DECEW	344.5		
	ROCHESTER	357.4		
	IRONDEQUOIT	374.7		
	REYNALES/FOSSIL HILL	376.0		
	THOROLD	378.4		
	GRIMSBY	382.4		
	CABOT HEAD	394.0		
	MANITOULIN			
	WHIRLPOOL	418.2		
ORDOVICIAN	QUEENSTON	420.2		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY	Norfolk	TWP	Lake Erie	BLK	65	TRAC	Q	LOT	-	CON	-
WELL NAME	Pembina #1 Lake Erie 65-Q			PERMIT	6739			INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI			CUR STATUS	CS-ABD		

DRILLING DATA			
CONTRACTOR	Pembina Resources Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	180.7
BOT	-	LOGGER	432.5
ROTRY TOP	38.6	DRILLER	432.0
BOT	432.0	DEEP END	-
DRLG FLD	BRINE	PLUG BK	-

DATES	
PERMIT	85-05-01
SPUD	85-05-24
COMPTD	85-05-28
OFFCNF	85-06-27
WRKOVR	-
ABNDND	85-05-28

COORDINATES		
NORTH	-	m
SOUTH	-	m
EAST	-	m
WEST	-	m
LAT	42-36-55.7	
LONG	80-03-16.0	

SAMPLES	
TOP	100
BOT	432
TRAY	333

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
161.0 – -	-	-
367.0 – 373.5	0.176	4558
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	97.6	CEM	0
178	25.3	165.2	CEM	0

COMPLETION DATA

GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF [ ]		OPEN HOLE [ ]

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
39.0 – 425.0	GRL	SCH
39.0 – 427.0	CNL	"
161.0 – 431.0	DENL	"
217.0 – 429.5	LATL	"
217.0 – 432.0	MSFL	"
240.0 – 419.5	CBLK	"
350.0 – 405.0	RFT	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
367.6 – 385.9	-	-	Y
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	38.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	88.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	93.0		
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY	129.5		
SILURIAN	BASS ISLANDS	138.0		
	G SHALE	158.5		
	F SHALE	165.0		
	F SALT			
	E CARBONATE	200.1		
	D SALT/EQUIVALENT			
	C SHALE	224.0		
	B MARKER	231.0		
	B EQUIVALENT	236.7		
	B SALT			
	B ANHYDRITE	244.0		
	A2 CARBONATE	248.7		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	259.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	260.9		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	331.0		
	ROCHESTER	347.5		
	IRONDEQUOIT	364.2		
	REYNALES/FOSSIL HILL	365.7		
	THOROLD	368.0		
	GRIMSBY	371.7		
	CABOT HEAD	385.0		
	MANITOULIN	406.1		
	WHIRLPOOL	408.0		
ORDOVICIAN	QUEENSTON	410.5		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: T. R. Carter

CTY	Norfolk	TWP	Lake Erie	BLK	65	TRAC	W	LOT	-	CON	-
WELL NAME	Pembina #2 Lake Erie 65-W			PERMIT	6829			INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI			CUR STATUS	GP		

DRILLING DATA			
CONTRACTOR	Pembina Resources Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	180.8
BOT	-	LOGGER	462.4
ROTRY TOP	45.0	DRILLER	462.6
BOT	462.6	DEEP END	-
DRLG FLD	BRINE	PLUG BK	439.5

DATES	
PERMIT	85-06-26
SPUD	85-07-11
COMPTD	85-07-15
OFFCNF	85-08-14
WRKOVR	
ABNDND	

COORDINATES		
NORTH	-	m
SOUTH	-	m
EAST	-	m
WEST	-	m
LAT	42-35-39.9	
LONG	80-02-49.8	

SAMPLES	
TOP	111
BOT	462
TRAY	8194

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
122.0 – -	-	-
390.0 – 406.0	19.602	4626
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	107.7	CEM	0
178	25.3	154.8	CEM	0
114	17.3	450.5	CEM	0
60	6.9	391.6	HAN	391.6

COMPLETION DATA

GAS	19.602	10 ³m³/d
OIL	-	m³/d
SIP	4626	kPa
FORM	Grimsby	
INTRVL	394.5 – 404.4	m
		m
		m
PERF ☒		OPEN HOLE [ ]

REMARKS

Additives used in stimulation: 1000 litres HCl, 6250 m³ n2, + surfactants and stabilizers (see form 107)

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
122.0 – -	-	-
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
40.0 – 454.0	GRL	SCH
40.0 – 456.5	CNL	"
44.5 – 461.5	DENL	"
160.0 – 458.0	LATL	"
160.0 – 462.0	MSFL	"
130.5 – 455.0	SONL	"
348.0 – 438.5	CMPL	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.1		
	DRIFT / LAKE BOTTOM	45.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	94.8		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	112.2		
	SYLVANIA			
	BOIS BLANC	144.0		
	SPRINGVALE	155.0		
	ORISKANY			
SILURIAN	BASS ISLANDS	157.0		
	G SHALE	182.3		
	F SHALE	188.8		
	F SALT			
	E CARBONATE	221.9		
	D SALT/EQUIVALENT			
	C SHALE	246.3		
	B MARKER	254.7		
	B EQUIVALENT	260.2		
	B SALT			
	B ANHYDRITE	270.2		
	A2 CARBONATE	272.8		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	283.1		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	258.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	348.0		
	ROCHESTER	364.3		
	IRONDEQUOIT	382.3		
	REYNALES/FOSSIL HILL	383.9		
	THOROLD	386.3		
	GRIMSBY	389.5		
	CABOT HEAD	404.4		
	MANITOULIN			
	WHIRLPOOL	427.5		
ORDOVICIAN	QUEENSTON	429.4		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: T. R. Carter

CTY Norfolk TWP Lake Erie BLK 65 TRAC X LOT CON
WELL NAME Pembina #3 Lake Erie 65-X PERMIT 6740 INIT CLASS DEV
OPERATOR Pembina Exploration Co. Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR Pembina Resources Limited
RIG TYPE ROT
CABLE TOP
BOT
ROTRY TOP 36.7
BOT 454.0
DRLG FLD NaCl BRINE

DEPTHS
KB ELEV 180.8
LOGGER 454.0
DRILLER 454.0
DEEP END
PLUG BK 439.2

DATES

PERMIT 1985-05-01
SPUD 1985-05-13
COMPTD 1985-05-18
OFFCNF 1985-06-18
WRKOVR
ABNDND

COORDINATES

NORTH m
SOUTH m
EAST m
WEST m
LAT 42-35-25.3
LONG 80-03-44.4

SAMPLES

TOP 111.0
BOT 456.0
TRAY 6260

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
125.0 –	Show	
171.0 –	Show	
394.5 – 409.0	25.788	
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	105.4	CEM	
178	25.3	132.2	CEM	
114	17.3	449.8	CEM	
60	6.9	391.6	HAN	

COMPLETION DATA

GAS 25.788 10³m³/d
OIL m³/d
SIP 4643 kPa
FORM Grimsby
INTRVL 396.4-405.2 m
m
m
PERF ☒ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
396.9 – 404.8	RFT	Schlumberger
173.0 – 453.5	DLLM	"
325.0 – 453.5	CMPL	"
31.0 – 453.0	CNFD	"
–		
–		
–		

REMARKS

Perforation Intervals
396.4 - 397.4
399.0 - 400.4
402.5 - 405.2

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.1		
	DRIFT / LAKE BOTTOM	36.7		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	95.0		
	COLUMBUS			
	LUCAS	112.0		
	AMHERSTBURG	123.1		
	SYLVANIA			
	BOIS BLANC	143.3		
	SPRINGVALE	154.3		
	ORISKANY			
SILURIAN	BASS ISLANDS	159.5		
	G SHALE	185.0		
	F SHALE	190.4		
	F SALT			
	E CARBONATE	213.0		
	D SALT/EQUIVALENT			
	C SHALE	249.7		
	B MARKER	255.8		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	269.8		
	A2 CARBONATE	275.0		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	287.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	292.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	353.8		
	ROCHESTER	365.4		
	IRONDEQUOIT	385.2		
	REYNALES/FOSSIL HILL	386.7		
	THOROLD	389.4		
	GRIMSBY	392.5		
	CABOT HEAD	406.3		
	MANITOULIN			
	WHIRLPOOL	430.3		
ORDOVICIAN	QUEENSTON	432.9		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY Haldimand TWP Lake Erie BLK 67 TRAC J LOT - CON -
WELL NAME Pembina #4 PERMIT 6855 INIT CLASS DEV
OPERATOR Pembina #4 Lake Erie 67-J TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR Pembina Resources Limited
RIG TYPE ROT
CABLE TOP -
BOT -
ROTRY TOP 48.4
BOT 441.9
DRLG FLD BRINE

DEPTHS
KB ELEV 181.3
LOGGER 442.0
DRILLER 441.9
DEEP END -
PLUG BK 425.2

DATES

PERMIT 85-08-20
SPUD 85-08-25
COMPTD 85-09-02
OFFCNF 85-10-02
WRKOVR
ABNDND

COORDINATES

NORTH - m
SOUTH - m
EAST - m
WEST - m
LAT 42-38-07
LONG 79-50-12

SAMPLES

TOP 111
BOT 435
TRAY 5620

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
113.0 – -	-	-
369.0 – 388.0	2.255	4354
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	74.6	109.4	CEM	0
178	25.3	156.9	CEM	0
114	17.3	423.8	CEM	0
60	6.9	369.8	HAN	369.8

COMPLETION DATA

GAS 2.255 10³m³/d
OIL - m³/d
SIP 4354 kPa
FORM Grimsby
INTRVL 373.2 - 386.3 m
m
m
PERF ☒ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
334.0 – 426.0	CMPL	SCH
40.0 – 433.5	GRL	"
40.0 – 436.0	CNL	"
147.0 – 441.0	DENL	"
158.0 – 437.5	LATL	"
158.0 – 441.0	MSFL	"
–		

REMARKS

No samples above 111.0 m. Cannot confirm top of Amherstberg.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.6		
	DRIFT / LAKE BOTTOM	48.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	97.7		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	116.1		
	SYLVANIA			
	BOIS BLANC	141.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	151.5		
	G SHALE	167.3		
	F SHALE	172.8		
	F SALT			
	E CARBONATE	208.5		
	D SALT/EQUIVALENT			
	C SHALE	231.2		
	B MARKER	240.7		
	B EQUIVALENT	246.2		
	B SALT			
	B ANHYDRITE	255.2		
	A2 CARBONATE	258.4		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	270.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	275.9		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	336.2		
	ROCHESTER	347.5		
	IRONDEQUOIT	363.6		
	REYNALES/FOSSIL HILL	365.8		
	THOROLD			
	GRIMSBY	367.8		
	CABOT HEAD	386.4		
	MANITOULIN			
	WHIRLPOOL	407.6		
ORDOVICIAN	QUEENSTON	411.4		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	67	TRAC	M	LOT	-	CON	-
WELL NAME	Pembina #1 Lake Erie 67-M			PERMIT	6744			INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI			CUR STATUS	GP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-05-01	NORTH	-	m	TOP	114
RIG TYPE	ROT	DEPTHS		SPUD	85-08-20	SOUTH	-	m	BOT	441
CABLE TOP	-	KB ELEV		COMPTD	85-08-25	EAST	-	m	TRAY	4357
BOT	-	LOGGER	441.8	OFFCNF	85-09-24	WEST	-	m		
ROTRY TOP	52.6	DRILLER	441.8	WRKOVR	-	LAT	42-37-51			
BOT	441.8	DEEP END	-	ABNDND	-	LONG	79-52-19			
DRLG FLD	Brine	PLUG BK	423.5							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
368.0 – 382.0	3.746	4693
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	74.6	111.2	CEM	0
178	25.3	156.3	CEM	0
114	17.3	434.4	CEM	0
60	6.9	423.5	HAN	423.5

COMPLETION DATA

GAS	3.746	10³m³/d
OIL	-	m³/d
SIP	4693	kPa
FORM	Grimsby	
INTRVL	370.8 - 376.0	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

No samples for Lucas, Dundee, top of Amherstberg. Operator picked Lucas at 103.3 which is doubtful - no Lucas in this area.

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
48.5 – 434.0	GRL	SCH
48.5 – 436.5	CNL	"
146.5 – 441.0	DENL	"
270.0 – 425.0	CBLK	"
155.0 – 437.5	LATL	"
155.0 – 441.5	MSFL	"
130.0 – 423.5	CMPL	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	52.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	97.6		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	115.3		
	SYLVANIA			
	BOIS BLANC	135.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	146.0		
	G SHALE	165.1		
	F SHALE	171.2		
	F SALT			
	E CARBONATE	205.8		
	D SALT/EQUIVALENT			
	C SHALE	229.4		
	B MARKER	239.3		
	B EQUIVALENT	244.7		
	B SALT			
	B ANHYDRITE	253.4		
	A2 CARBONATE	257.9		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	268.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	274.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	336.0		
	ROCHESTER	347.6		
	IRONDEQUOIT	362.7		
	REYNALES/FOSSIL HILL	364.8		
	THOROLD	367.0		
	GRIMSBY	370.0		
	CABOT HEAD	386.6		
	MANITOULIN			
	WHIRLPOOL	406.2		
ORDOVICIAN	QUEENSTON	410.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	68	TRAC	P	LOT	-	CON	-
WELL NAME	Pembina #2 Lake Erie 68-P			PERMIT	6748			INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI			CUR STATUS	GP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-05-01	NORTH	-	m	TOP	120
RIG TYPE	ROT	DEPTHS		SPUD	85-07-30	SOUTH	-	m	BOT	423
CABLE TOP	-	KB ELEV	181.1	COMPTD	85-08-05	EAST	-	m	TRAY	5860
BOT	-	LOGGER	458.0	OFFCNF	85-09-04	WEST	-	m		
ROTRY TOP	53.8	DRILLER	457.9	WRKOVR	-	LAT	42-36-30			
BOT	457.9	DEEP END	-	ABNDND	-	LONG	79-49-41			
DRLG FLD	BRINE	PLUG BK	443.5							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
198.0 – -	-	-
403.0 – -	-	-
423.0 – 430.0	2.611	5592
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	76.4	121.6	CEM	0
178	25.3	184.4	CEM	0
114	17.3	454.1	CEM	0
60	6.9	422.4	HAN	422.4

COMPLETION DATA

GAS	2.611	10³m³/d
OIL	-	m³/d
SIP	5592	kPa
FORM	Whirlpool	
INTRVL	425.0 - 428.5	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
44.0 – 450.0	GRL	SCH
44.0 – 452.5	CNL	"
174.0 – 457.0	DENL	"
190.0 – 454.0	LATL	"
190.0 – 457.5	MSFL	"
348.0 – 443.5	CMPL	"
188.0 – 445.5	CBLK	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	53.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	108.6		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	111.0		
	SYLVANIA			
	BOIS BLANC	132.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	140.6		
	G SHALE	182.8		
	F SHALE	189.3		
	F SALT			
	E CARBONATE	223.8		
	D SALT/EQUIVALENT			
	C SHALE	247.9		
	B MARKER	258.2		
	B EQUIVALENT	263.5		
	B SALT			
	B ANHYDRITE	272.3		
	A2 CARBONATE	277.0		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	288.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	294.3		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	350.4		
	ROCHESTER	365.2		
	IRONDEQUOIT	380.0		
	REYNALES/FOSSIL HILL	382.0		
	THOROLD	384.6		
	GRIMSBY	385.5		
	CABOT HEAD	404.2		
	MANITOULIN			
	WHIRLPOOL	424.9		
ORDOVICIAN	QUEENSTON	428.4		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY Haldimand	TWP Lake Erie	BLK 68	TRAC I	LOT -	CON -
WELL NAME Pembina #2 Lake Erie 68-I		PERMIT 6798		INIT CLASS DEV	
OPERATOR Pembina Exploration Co. Ltd.		TARGET CLI		CUR STATUS DH-ABD	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-06-05	NORTH	-	m	TOP	108
RIG TYPE	ROT	DEPTHS		SPUD	85-07-25	SOUTH	-	m	BOT	417
CABLE TOP	-	KB ELEV	181.2	COMPTD	85-07-29	EAST	-	m	TRAY	1289
BOT	-	LOGGER	432.5	OFFCNF	85-08-28	WEST	-	m		
ROTRY TOP	46.0	DRILLER	432.0	WRKOVR	-	LAT	42-38-34			
BOT	432.0	DEEP END	-	ABNDND	85-07-29	LONG	79-46-37			
DRLG FLD	BRINE	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	74.6	106.1	CEM	0
178	25.3	153.7	CEM	0

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
37.5 – 425.0	GRL	SCH
37.5 – 427.0	CNL	"
145.0 – 431.5	DENL	"
154.0 – 428.5	LATL	"
154.0 – 432.0	MSFL	"
265.0 – 420.5	CBLK	'
–		

REMARKS

No samples to confirm top of Amherstberg.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	%
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	46.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	94.7		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	110.1		
	SYLVANIA			
	BOIS BLANC	132.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	141.0		
	G SHALE	159.1		
	F SHALE	164.7		
	F SALT			
	E CARBONATE	200.8		
	D SALT/EQUIVALENT			
	C SHALE	223.7		
	B MARKER	232.8		
	B EQUIVALENT	238.7		
	B SALT			
	B ANHYDRITE	249.1		
	A2 CARBONATE	253.1		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	264.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	272.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	324.0		
	ROCHESTER	337.8		
	IRONDEQUOIT	355.7		
	REYNALES/FOSSIL HILL	357.9		
	THOROLD	360.0		
	GRIMSBY	361.0		
	CABOT HEAD	379.9		
	MANITOULIN			
	WHIRLPOOL	399.9		
ORDOVICIAN	QUEENSTON	403.6		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY Haldimand	TWP Lake Erie	BLK 68	TRAC X	LOT -	CON -
WELL NAME Pembina #2 Lake Erie 68-X		PERMIT 6854		INIT CLASS DEV	
OPERATOR Pembina Exploration Co. Ltd.		TARGET CLI		CUR STATUS DH-ABD	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-08-20	NORTH	-	m	TOP	129
RIG TYPE	ROT	DEPTHS		SPUD	85-09-02	SOUTH	-	m	BOT	465
CABLE TOP	-	KB ELEV	181.2	COMPTD	85-09-06	EAST	-	m	TRAY	6491
BOT	-	LOGGER	470.8	OFFCNF	85-10-06	WEST	-	m		
ROTRY TOP	55.8	DRILLER	470.9	WRKOVR	-	LAT	42-35-56			
BOT	470.9	DEEP END	-	ABNDND	85-09-06	LONG	79-48-56			
DRLG FLD	BRINE	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	74.6	127.6	CEM	0
178	25.3	184.8	CEM	0

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
45.5 – 465.5	GRL	SCH
45.5 – 465.5	CNL	"
174.0 – 469.8	DENL	"
187.0 – 466.5	LATL	"
187.0 – 470.5	MSFL	"
296.0 – 452.5	CBLK	"
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REMARKS

Amherstberg top picked as Lucas by operator. No samples for confirmation.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	%
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	55.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	113.5		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	123.8		
	SYLVANIA			
	BOIS BLANC	159.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	169.5		
	G SHALE	191.7		
	F SHALE	197.5		
	F SALT			
	E CARBONATE	232.7		
	D SALT/EQUIVALENT			
	C SHALE	257.4		
	B MARKER	265.8		
	B EQUIVALENT	271.9		
	B SALT			
	B ANHYDRITE	281.0		
	A2 CARBONATE	285.5		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	295.9		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	302.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	358.0		
	ROCHESTER	373.7		
	IRONDEQUOIT	388.2		
	REYNALES/FOSSIL HILL	390.3		
	THOROLD	392.6		
	GRIMSBY	393.7		
	CABOT HEAD	412.0		
	MANITOULIN			
	WHIRLPOOL	432.2		
ORDOVICIAN	QUEENSTON	435.3		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	69	TRAC	E	LOT	-	CON	-
WELL NAME	Pembina #3 Lake Erie 69 E			PERMIT	6799			INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI			CUR STATUS	GS-ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-06-05	NORTH	-	m	TOP	108
RIG TYPE	ROT	DEPTHS		SPUD	85-07-19	SOUTH	-	m	BOT	417
CABLE TOP	-	KB ELEV	181.2	COMPTD	85-07-25	EAST	-	m	TRAY	5687
BOT	-	LOGGER	418.5	OFFCNF	85-08-24	WEST	-	m		
ROTRY TOP	43.9	DRILLER	418.8	WRKOVR	-	LAT	42-39-23			
BOT	418.8	DEEP END	-	ABNDND	85-07-24	LONG	79-44-45			
DRLG FLD	BRINE	PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
110.0 – -	-	-
120.0 – -	-	-
346.0 – 359.0	0.101	4714
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	74.6	106.0	CEM	0
178	25.3	157.8	CEM	0

COMPLETION DATA

GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
38.0 – 410.5	GRL	SCH
38.0 – 413.0	CNL	SCH
147.0 – 417.5	DENL	"
159.0 – 415.0	LATL	"
159.0 – 418.0	MSFL	"
250.0 – 408.0	CBLK	"
–		

REMARKS

No samples to confirm top of Amherstberg, or presence of Dundee or Lucas.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	43.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	96.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	98.9		
	SYLVANIA			
	BOIS BLANC	123.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	129.0		
	G SHALE	145.7		
	F SHALE	151.0		
	F SALT			
	E CARBONATE	186.3		
	D SALT/EQUIVALENT			
	C SHALE	209.8		
	B MARKER	218.4		
	B EQUIVALENT	224.0		
	B SALT			
	B ANHYDRITE	232.9		
	A2 CARBONATE	236.0		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	248.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	254.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	311.1		
	ROCHESTER	325.0		
	IRONDEQUOIT	340.0		
	REYNALES/FOSSIL HILL	341.9		
	THOROLD			
	GRIMSBY	344.0		
	CABOT HEAD	369.8		
	MANITOULIN			
	WHIRLPOOL	385.6		
ORDOVICIAN	QUEENSTON	387.7		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: T. R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	69	TRAC	M	LOT	-	CON	-
WELL NAME	Pembina #4 Lake Erie 69-M			PERMIT	6791			INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI			CUR STATUS	GS-ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-06-05	NORTH	-	m	TOP	135
RIG TYPE	ROT	DEPTHS		SPUD	85-07-15	SOUTH	-	m	BOT	450
CABLE TOP	-	KB ELEV	181.2	COMPTD	85-07-19	EAST	-	m	TRAY	7028
BOT	-	LOGGER	458.3	OFFCNF	85-08-18	WEST	-	m		
ROTRY TOP	50.5	DRILLER	458.2	WRKOVR	-	LAT	42-37-05			
BOT	458.2	DEEP END	-	ABNDND	85-07-19	LONG	79-42-11			
DRLG FLD	BRINE	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
398.0 – -	-	-
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	76.4	131.1	CEM	0
178	25.3	174.9	CEM	0

COMPLETION DATA

GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
39.0 – 450.0	GRL	SCH
39.0 – 452.5	CNL	"
166.0 – 457.0	DENL	"
175.0 – 454.5	LATL	"
175.0 – 458.0	MSFL	"
283.0 – 440.0	CBLK	"
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	50.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	113.5		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	119.3		
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY	150.0		
SILURIAN	BASS ISLANDS	162.0		
	G SHALE	180.0		
	F SHALE	184.3		
	F SALT			
	E CARBONATE	219.0		
	D SALT/EQUIVALENT			
	C SHALE	242.7		
	B MARKER	252.0		
	B EQUIVALENT	257.8		
	B SALT			
	B ANHYDRITE	262.8		
	A2 CARBONATE	272.0		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	285.6		
	A1 CARBONATE	286.8		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	290.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON	321.0		
	DECEW	342.4		
	ROCHESTER	359.9		
	IRONDEQUOIT	376.2		
	REYNALES/FOSSIL HILL	378.2		
	THOROLD			
	GRIMSBY	380.8		
	CABOT HEAD	400.0		
	MANITOULIN			
	WHIRLPOOL	420.3		
ORDOVICIAN	QUEENSTON	423.2		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: T. R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	70	TRAC	C	LOT	-	CON	-
WELL NAME	Pembina #2 Lake Erie 70-C			PERMIT	6747	INIT CLASS	DEV				
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	GP				

DRILLING DATA

CONTRACTOR	Pembina Resources Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	180.7
BOT	-	LOGGER	414.4
ROTRY TOP	37.6	DRILLER	415.0
BOT	415.0	DEEP END	-
DRLG FLD	BRINE	PLUG BK	393.3

DATES		COORDINATES			SAMPLES	
PERMIT	85-05-01	NORTH	-	m	TOP	93
SPUD	85-06-04	SOUTH	-	m	BOT	417
COMPTD	85-06-09	EAST	-	m	TRAY	5540
OFFCNF	85-07-09	WEST	-	m		
WRKOVR	-	LAT	42-39-49			
ABNDND	-	LONG	79-37-41			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
344.0 – -	-	-
354.0 – -	-	-
356.0 – 367.0	6.488	5171
–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	91.6	CEM	0
178	25.3	148.1	CEM	0
114	17.3	407.2	CEM	0
60	6.9	356.0	HAN	356.0

COMPLETION DATA

GAS	6.488	$10^3 m^3/d$
OIL		m^3/d
SIP	5171	kPa
FORM	Grimsby	
INTRVL	358.8 - 365.1	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

*227.0-403.2/CBLK/ "

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
97.0 – -	-	-
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
300.0 – 393.0	CMPL	SCH
34.0 – 406.5	GRL	"
34.0 – 409.0	CNL	"
142.5 – 414.0	DENL	"
152.5 – 410.5	LATL	"
152.5 – 413.5	MSFL	"
359.0 – 386.4	RFT	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	37.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	82.2		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	98.7		
	SYLVANIA			
	BOIS BLANC	126.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	132.0		
	G SHALE	145.0		
	F SHALE	150.7		
	F SALT			
	E CARBONATE	185.8		
	D SALT/EQUIVALENT			
	C SHALE	210.6		
	B MARKER	219.4		
	B EQUIVALENT	225.2		
	B SALT			
	B ANHYDRITE	234.6		
	A2 CARBONATE	238.6		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	248.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	251.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	310.0		
	ROCHESTER	325.3		
	IRONDEQUOIT	341.3		
	REYNALES/FOSSIL HILL	343.5		
	THOROLD			
	GRIMSBY	345.2		
	CABOT HEAD	365.1		
	MANITOULIN			
	WHIRLPOOL	384.7		
ORDOVICIAN	QUEENSTON	389.7		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	70	TRAC	C	LOT	-	CON	-
WELL NAME	Pembina #4 Lake Erie 70-C			PERMIT	6858	INIT CLASS	DEV				
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	GP				

DRILLING DATA

CONTRACTOR	Pembina Resources Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	180.7
BOT	-	LOGGER	437.5
ROTRY TOP	32.4	DRILLER	438.5
BOT	438.5	DEEP END	-
DRLG FLD	BRINE	PLUG BK	416.5

DATES		COORDINATES			SAMPLES	
PERMIT	85-08-20	NORTH	-	m	TOP	110
SPUD	85-09-17	SOUTH	-	m	BOT	435
COMPTD	85-09-21	EAST	-	m	TRAY	6785
OFFCNF	85-10-21	WEST	-	m		
WRKOVR	-	LAT	42-39-04			
ABNDND	-	LONG	79-37-10			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
136.0 – -	-	-
367.0 – 383.0	3.497	4886
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	107.3	CEM	0
178	25.3	156.7	CEM	0
114	17.3	427.9	CEM	0
60	6.9	376.2	HAN	376.2

COMPLETION DATA

GAS	3.497	$10^3 m^3/d$
OIL	-	m^3/d
SIP	4886	kPa
FORM	Grimsby	
INTRVL	379.6 - 382.0	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 – 429.5	GRL	SCH
35.0 – 432.0	CNL	"
142.5 – 436.5	DENL	"
158.0 – 433.5	LATL	"
158.0 – 437.0	MSFL	"
325.0 – 416.5	CMPL	"
265.0 – 415.0	CBLK	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	32.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	96.8		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	120.0		
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	147.0		
	G SHALE	160.9		
	F SHALE	166.2		
	F SALT			
	E CARBONATE	202.9		
	D SALT/EQUIVALENT			
	C SHALE	227.3		
	B MARKER	235.8		
	B EQUIVALENT	242.3		
	B SALT			
	B ANHYDRITE	251.0		
	A2 CARBONATE	253.7		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	265.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	268.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	327.9		
	ROCHESTER	343.9		
	IRONDEQUOIT	359.4		
	REYNALES/FOSSIL HILL	361.5		
	THOROLD			
	GRIMSBY	363.9		
	CABOT HEAD	385.8		
	MANITOULIN			
	WHIRLPOOL	401.6		
ORDOVICIAN	QUEENSTON	406.8		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	70	TRAC	F	LOT	-	CON	-
WELL NAME	Pembina #2 Lake Erie 70-F			PERMIT	6746			INIT CLASS	DEV		
OPERATOR	Pembina Exploration			TARGET	CLI			CUR STATUS	GP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-05-01	NORTH		m	TOP	99
RIG TYPE	ROT	DEPTHS		SPUD	85-06-17	SOUTH		m	BOT	420
CABLE TOP		KB ELEV	180.7	COMPTD	85-06-23	EAST		m	TRAY	9029
BOT		LOGGER	419.0	OFFCNF	85-07-23	WEST		m		
ROTRY TOP	40.3	DRILLER	419.6	WRKOVR		LAT	42-38-53			
BOT	419.6	DEEP END		ABNDND		LONG	79-39-43			
DRLG FLD	BRINE	PLUG BK	3981							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
354.0 - -		
368.0 - 374.0	3.746	5086
-		
-		
-		
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	98.5	CEM	0
178	25.3	146.4	CEM	0
114	17.3	408.6	CEM	0
60	6.9	336.8	HAN	336.8

COMPLETION DATA

GAS	3.746	$10^3 m^3/d$
OIL		m^3/d
SIP	5086	kPa
FORM	Grimsby	
INTRVL	369.8 - 371.2	m
		m
		m
PERF ☒	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
-		
-		
-		
-		
-		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
33.5 - 411.0	GRL	SCH
33.5 - 413.5	CNL	"
144.0 - 418.0	DENL	"
148.0 - 415.0	LATL	"
148.0 - 418.5	MSFL	"
296.7 - 398.0	CMPL	"
220.0 - 405.3	CBLK	"

REMARKS

Decew gradational into Rochester. Rochester top is uncertain.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
-		
-		
-		
-		
-		
-		

CORING RECORD

INTERVAL	LOCATION	NO	mm
-			
-			
-			
-			
-			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	40.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	87.9		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	101.5		
	SYLVANIA			
	BOIS BLANC	129.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	133.3		
	G SHALE	149.1		
	F SHALE	153.2		
	F SALT			
	E CARBONATE	189.1		
	D SALT/EQUIVALENT			
	C SHALE	213.6		
	B MARKER	223.5		
	B EQUIVALENT	230.0		
	B SALT			
	B ANHYDRITE	239.3		
	A2 CARBONATE	243.3		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	253.6		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	256.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	313.8		
	ROCHESTER	334.4		
	IRONDEQUOIT	348.6		
	REYNALES/FOSSIL HILL	350.8		
	THOROLD			
	GRIMSBY	353.2		
	CABOT HEAD	375.3		
	MANITOULIN			
	WHIRLPOOL	392.0		
ORDOVICIAN	QUEENSTON	395.6		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	70	TRAC	R	LOT	-	CON	-
WELL NAME	Pembina #1 Lake Erie 70-R			PERMIT	6745			INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI			CUR STATUS	GP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Ltd.			PERMIT	85-05-01	NORTH	-	m	TOP	149
RIG TYPE	ROT	DEPTHS		SPUD	85-06-09	SOUTH	-	m	BOT	465
CABLE TOP	-	KB ELEV	180.7	COMPTD	85-06-16	EAST	-	m	TRAY	9029
BOT	-	LOGGER	466.5	OFFCNF	85-07-16	WEST	-	m		
ROTRY TOP	53.3	DRILLER	466.8	WRKOVR	-	LAT	42-36-33			
BOT	466.8	DEEP END	-	ABNDND	-	LONG	79-37-14			
DRLG FLD	Brine	PLUG BK	452.3							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
415.0 - 420.0	6.096	5190
-		
-		
-		
-		
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	147.0	CEM	0
178	25.3	194.8	CEM	0
114	17.3	408.3	CEM	0
60	6.9	413.5	HAN	413.5

COMPLETION DATA

GAS	6.090	$10^3 m^3/d$
OIL		m^3/d
SIP	5190	kPa
FORM	Grimsby	
INTRVL	416.7 - 418.0	m
		m
		m
PERF ☒	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
-		
-		
-		
-		
-		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
45.0 - 458.5	GRL	SCH
45.0 - 461.0	CNL	"
174.0 - 465.5	DENL	"
196.0 - 462.0	LATL	"
196.0 - 466.0	MSFL	"
347.5 - 452.3	CMPL	"
-		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
-		
-		
-		
-		
-		
-		

CORING RECORD

INTERVAL	LOCATION	NO	mm
-			
-			
-			
-			
-			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	53.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	132.8		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	156.0		
	SYLVANIA			
	BOIS BLANC	174.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	183.0		
	G SHALE	198.8		
	F SHALE	203.7		
	F SALT			
	E CARBONATE	241.0		
	D SALT/EQUIVALENT			
	C SHALE	263.3		
	B MARKER	273.5		
	B EQUIVALENT	279.7		
	B SALT			
	B ANHYDRITE	288.4		
	A2 CARBONATE	292.8		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	302.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	305.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	369.0		
	ROCHESTER	378.0		
	IRONDEQUOIT	395.5		
	REYNALES/FOSSIL HILL	397.6		
	THOROLD			
	GRIMSBY	400.0		
	CABOT HEAD	419.3		
	MANITOULIN			
	WHIRLPOOL	442.2		
ORDOVICIAN	QUEENSTON	444.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	70	TRAC	S	LOT	-	CON	-
WELL NAME	Pembina 1-A Lake Erie 70-S			PERMIT	6857	INIT CLASS	DEV				
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	GP				

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-08-20	NORTH	-	m	TOP	147
RIG TYPE	ROT	DEPTHS		SPUD	85-09-22	SOUTH	-	m	BOT	471
CABLE TOP	-	KB ELEV	180.7	COMPTD	85-10-03	EAST	-	m	TRAY	1530
BOT	-	LOGGER	470.6	OFFCNF	85-11-02	WEST	-	m		
ROTRY TOP	51.4	DRILLER	470.1	WRKOVR		LAT	42-36-34			
BOT	470.1	DEEP END	-	ABNOND		LONG	79-36-08			
DRLG FLD	BRINE	PLUG BK	453.0							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
151.0 - -	-	-
418.0 - 423.0	-	-
-		
-		
-		
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	74.6	145.5	CEM	204
178	25.3	194.3	CEM	153
114	17.3	463.7	CEM	102
60	6.9	414.5	HAN	414.5

COMPLETION DATA

GAS	-	$10^3 m^3/d$
OIL	-	m^3/d
SIP	-	kPa
FORM	Grimsby	
INTRVL	417.3 - 423.0	m
		m
		m
PERF ☒		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
-		
-		
-		
-		
-		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
25.0 - 462.5	GRL	SCH
25.0 - 465.0	CNL	"
52.5 - 469.5	DENL	"
198.5 - 467.0	LATL	"
198.5 - 469.5	MSFL	"
393.0 - 452.0	CMPL	"
295.0 - 450.0	CBLK	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
-		
-		
-		
-		
-		
-		

CORING RECORD

INTERVAL	LOCATION	NO	mm
-			
-			
-			
-			
-			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	51.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	136.8		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	156.0		
	SYLVANIA			
	BOIS BLANC	180.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	186.5		
	G SHALE	201.2		
	F SHALE	206.9		
	F SALT			
	E CARBONATE	242.4		
	D SALT/EQUIVALENT			
	C SHALE	265.6		
	B MARKER	276.0		
	B EQUIVALENT	282.4		
	B SALT			
	B ANHYDRITE	290.8		
	A2 CARBONATE	295.8		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	305.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	308.3		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	369.9		
	ROCHESTER	381.9		
	IRONDEQUOIT	398.8		
	REYNALES/FOSSIL HILL	401.0		
	THOROLD			
	GRIMSBY	405.0		
	CABOT HEAD	425.3		
	MANITOULIN			
	WHIRLPOOL	441.5		
ORDOVICIAN	QUEENSTON	446.2		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T.R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	70	TRAC	V	LOT	-	CON	-
WELL NAME	Pembina #1 Lake Erie 70-V			PERMIT	6856	INIT CLASS	DEV				
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	GP				

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-08-20	NORTH	-	m	TOP	150
RIG TYPE	ROT	DEPTHS		SPUD	85-09-07	SOUTH	-	m	BOT	477
CABLE TOP	-	KB ELEV	181.2	COMPTD	85-09-13	EAST	-	m	TRAY	5183
BOT	-	LOGGER	479.5	OFFCNF	85-10-13	WEST	-	m		
ROTRY TOP	56.4	DRILLER	479.0	WRKOVR	-	LAT	42-35-52			
BOT	479.0	DEEP END	-	ABNOND	-	LONG	79-36-13			
DRLG FLD	BRINE	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
411.0 - -	-	-
449.0 - 456.0	5.663	5753
432.0 - 436.0	0.056	5331
-		
-		
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	74.6	147.6	CEM	0
178	25.3	184.9	CEM	0
114	17.3	476.3	CEM	0
60	6.9	449.5	HAN	449.5

COMPLETION DATA

GAS	5.663	$10^3 m^3/d$
OIL	-	m^3/d
SIP	5756	kPa
FORM	Whirlpool	
INTRVL	453.0 - 454.2	m
		m
		m
PERF ☒		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
-		
-		
-		
-		
-		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
48.0 - 471.5	GRL	SCH
48.0 - 474.0	CNL	"
173.0 - 478.5	DENL	"
185.0 - 475.0	LATL	"
185.0 - 479.0	MSFL	"
382.0 - 474.5	CMPL	"
314.0 - 465.5	CBLK	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
-		
-		
-		
-		
-		
-		

CORING RECORD

INTERVAL	LOCATION	NO	mm
-			
-			
-			
-			
-			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	56.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	135.8		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	150.5		
	SYLVANIA			
	BOIS BLANC	183.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	195.0		
	G SHALE	209.7		
	F SHALE	214.6		
	F SALT			
	E CARBONATE	250.9		
	D SALT/EQUIVALENT			
	C SHALE	275.0		
	B MARKER	284.5		
	B EQUIVALENT	290.8		
	B SALT			
	B ANHYDRITE	299.9		
	A2 CARBONATE	304.5		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	313.7		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	316.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	379.3		
	ROCHESTER	389.6		
	IRONDEQUOIT	407.0		
	REYNALES/FOSSIL HILL	409.0		
	THOROLD			
	GRIMSBY	413.2		
	CABOT HEAD	435.0		
	MANITOULIN			
	WHIRLPOOL	450.6		
ORDOVICIAN	QUEENSTON	454.5		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	71	TRAC	C	LOT	-	CON	-
WELL NAME	Pembina #2 Lake Erie 71-C			PERMIT	6800	INIT CLASS	DEV				
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	GS-ABD				

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-06-05	NORTH	-	m	TOP	129
RIG TYPE	ROT	DEPTHS		SPUD	85-07-09	SOUTH	-	m	BOT	438
CABLE TOP	-	KB ELEV	181.2	COMPTD	85-07-13	EAST	-	m	TRAY	5699
BOT	-	LOGGER	440.5	OFFCNF	85-08-13	WEST	-	m		
ROTRY TOP	36.8	DRILLER	441.2	WRKOVR	-	LAT	42-39-42			
BOT	441.2	DEEP END	-	ABNDND	85-07-13	LONG	79-32-41			
DRLG FLD	BRINE	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
381.0 – 386.0	0.081	5288
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	76.4	127.6	CEM	0
178	25.3	182.5	CEM	0

COMPLETION DATA

GAS		$10^3 m^3/d$
OIL		m^3/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
30.0 – 432.0	GRL	SCH
30.0 – 435.0	CNL	"
173.7 – 439.5	DENL	"
183.5 – 436.5	LATL	"
183.5 – 440.0	MSFL	"
270.0 – 420.5	CBLK	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	36.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	112.3		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	126.9		
	SYLVANIA			
	BOIS BLANC	147.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	153.0		
	G SHALE	165.0		
	F SHALE	172.3		
	F SALT			
	E CARBONATE	206.9		
	D SALT/EQUIVALENT			
	C SHALE	231.6		
	B MARKER	240.3		
	B EQUIVALENT	247.2		
	B SALT			
	B ANHYDRITE	255.3		
	A2 CARBONATE	259.9		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	268.8		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	271.9		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	329.2		
	ROCHESTER	344.7		
	IRONDEQUOIT	361.3		
	REYNALES/FOSSIL HILL	363.6		
	THOROLD			
	GRIMSBY	368.0		
	CABOT HEAD	387.5		
	MANITOULIN			
	WHIRLPOOL	404.0		
ORDOVICIAN	QUEENSTON	409.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	86	TRAC	E	LOT	-	CON	-
WELL NAME	Pembina #2 Lake Erie 86-E			PERMIT	6749	INIT CLASS	DEV				
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI	CUR STATUS	GP				

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-05-01	NORTH	-	m	TOP	144
RIG TYPE	ROT	DEPTHS		SPUD	85-08-06	SOUTH	-	m	BOT	463
CABLE TOP	-	KB ELEV	181.1	COMPTD	85-08-12	EAST	-	m	TRAY	7048
BOT	-	LOGGER	463.3	OFFCNF	85-09-11	WEST	-	m		
ROTRY TOP	61.7	DRILLER	464.7	WRKOVR	-	LAT	42-34-43			
BOT	464.7	DEEP END	-	ABNDND	-	LONG	79-49-33			
DRLG FLD	BRINE	PLUG BK	451.6							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
145.0 – -	-	-
408.0 – -	-	-
415.0 – 421.0	19.602	4914
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	74.6	140.0	CEM	0
178	25.3	187.7	CEM	0
114	17.3	461.4	CEM	0
60	6.9	451.6	HAN	451.6

COMPLETION DATA

GAS	19.602	$10^3 m^3/d$
OIL		m^3/d
SIP	4914	kPa
FORM	Grimsby	
INTRVL	417.1 - 419.8	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
48.5 – 455.0	GRL	SCH
48.5 – 458.0	CNL	"
177.0 – 462.0	DENL	"
188.0 – 459.0	LATL	"
188.0 – 462.5	MSFL	"
365.0 – 451.5	CMPL	"
299.0 – 451.0	CBLK	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	61.7		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	130.5		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	140.0		
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY	165.6		
SILURIAN	BASS ISLANDS	171.0		
	G SHALE	197.7		
	F SHALE	203.8		
	F SALT			
	E CARBONATE	240.5		
	D SALT/EQUIVALENT			
	C SHALE	263.3		
	B MARKER	273.0		
	B EQUIVALENT	279.0		
	B SALT			
	B ANHYDRITE	287.2		
	A2 CARBONATE	291.6		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	303.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	309.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	367.0		
	ROCHESTER	380.8		
	IRONDEQUOIT	395.3		
	REYNALES/FOSSIL HILL	397.8		
	THOROLD			
	GRIMSBY	400.0		
	CABOT HEAD	424.2		
	MANITOULIN			
	WHIRLPOOL	441.8		
ORDOVICIAN	QUEENSTON	443.7		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T.R. Carter

CTY	Haldimand	TWP	Lake Erie	BLK	88	TRAC	0	LOT	-
CON	-	WELL NAME	Pembina #1 Lake Erie 88-0	PERMIT	6801	INIT CLASS	NPW		
OPERATOR	Pembina Exploration Co. Ltd.	TARGET	CLI	CUR STATUS	GP				

DRILLING DATA

CONTRACTOR	Pembina Resources Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	181.1
BOT	-	LOGGER	500.8
ROTRY TOP	59.7	DRILLER	500.7
BOT	500.7	DEEP END	-
DRLG FLD	BRINE	PLUG BK	-

DATES		COORDINATES		SAMPLES	
PERMIT	85-06-05	NORTH	- m	TOP	147
SPUD	85-08-13	SOUTH	- m	BOT	501
COMPTD	85-08-19	EAST	- m	TRAY	4463
OFFCNF	85-09-18	WEST	- m		
WRKOVR		LAT	42-32-45		
ABNDND		LONG	79-59-13		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
425.0 - 443.0	14.594	4811

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	74.6	146.7	CEM	0
178	25.3	200.8	CEM	0
114	17.3	495.7	CEM	0
60	6.9	423.8	HAN	423.8

COMPLETION DATA

GAS	14.594	10³m³/d
OIL	-	m³/d
SIP	4808	kPa
FORM	Grimsby	
INTRVL	428.0 - 439.5	m
		m
		m

PERF ☒ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
48.5 -493.0	GRL	SCH
48.5 -495.5	CNL	"
193.5 -500.0	DENL	"
202.0 -496.5	LATL	"
202.0 -500.0	MSFL	"
390.0 -435.7	CMPL	"
297.0 -490.0	CBLK	"

REMARKS

Amherstberg top uncertain - samples begin at 1420.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE

CORING RECORD

INTERVAL	LOCATION	NO	mm

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.6		
	DRIFT / LAKE BOTTOM	59.7		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	132.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	147.0		
	SYLVANIA			
	BOIS BLANC	186.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	192.5		
	G SHALE	219.5		
	F SHALE	226.3		
	F SALT			
	E CARBONATE	262.0		
	D SALT/EQUIVALENT			
	C SHALE	285.0		
	B MARKER	294.1		
	B EQUIVALENT	299.6		
	B SALT			
	B ANHYDRITE	309.0		
	A2 CARBONATE	313.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	323.1		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	325.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	390.4		
	ROCHESTER	409.5		
	IRONDEQUOIT	420.1		
	REYNALES/FOSSIL HILL	422.5		
	THOROLD	424.2		
	GRIMSBY	427.0		
	CABOT HEAD	442.7		
	MANITOULIN			
	WHIRLPOOL	466.3		
ORDOVICIAN	QUEENSTON	470.1		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. Carter

CTY	Norfolk	TWP	Lake Erie	BLK	89	TRAC	C	LOT	-
CON	-	WELL NAME	Pembina #2 Lake Erie 89-C	PERMIT	6789	INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.	TARGET	CLI	CUR STATUS	GP				

DRILLING DATA

CONTRACTOR	Pembina Resources Limited		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	180.7
BOT	-	LOGGER	471.7
ROTRY TOP	38.8	DRILLER	471.8
BOT	471.8	DEEP END	-
DRLG FLD	BRINE	PLUG BK	455.0

DATES		COORDINATES		SAMPLES	
PERMIT	85-06-05	NORTH	- m	TOP	119
SPUD	85-07-01	SOUTH	- m	BOT	465
COMPTD	85-07-04	EAST	- m	TRAY	1523
OFFCNF	85-08-03	WEST	- m		
WRKOVR	-	LAT	42-34-40		
ABNDND	-	LONG	80-02-41		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
406.0 - 413.0	7.917	4528

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	115.9	CEM	0
178	25.3	167.4	CEM	0
114	17.3	446.2	CEM	0
60	6.9	405.4	HAN	405.4

COMPLETION DATA

GAS	7.917	10³m³/d
OIL	-	m³/d
SIP	4189	kPa
FORM	Grimsby	
INTRVL	408.2 - 411.6	m
		m
		m

PERF ☒ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
122.0 -	-	-

LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 - 463.5	GRL	SCH
35.0 - 466.5	CNL	"
164.0 - 471.0	DENL	"
170.0 - 465.0	LATL	"
170.0 - 467.0	MSFL	"
275.0 - 451.0	CBLK	"

REMARKS

367.0-1455.0/ CMPL / "

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
170.0 -	-	SUL

CORING RECORD

INTERVAL	LOCATION	NO	mm

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.0		
	DRIFT / LAKE BOTTOM	38.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	105.7		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	129.0		
	SYLVANIA			
	BOIS BLANC	150.0		
	SPRINGVALE	162.0		
	ORISKANY	168.0		
SILURIAN	BASS ISLANDS	171.0		
	G SHALE	193.4		
	F SHALE	199.8		
	F SALT			
	E CARBONATE	235.1		
	D SALT/EQUIVALENT			
	C SHALE	257.7		
	B MARKER	266.4		
	B EQUIVALENT	271.9		
	B SALT			
	B ANHYDRITE	281.2		
	A2 CARBONATE	283.9		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	294.3		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	296.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	366.0		
	ROCHESTER	377.8		
	IRONDEQUOIT	398.1		
	REYNALES/FOSSIL HILL	399.8		
	THOROLD	402.1		
	GRIMSBY	404.0		
	CABOT HEAD	420.0		
	MANITOULIN			
	WHIRLPOOL	443.1		
ORDOVICIAN	QUEENSTON	445.5		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. Carter

CTY	Norfolk	TWP	Lake Erie	BLK	89	TRAC	I	LOT	-	CON	-
WELL NAME	Pembina #2 Lake Erie 89-I			PERMIT	6790			INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI			CUR STATUS	GP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-06-05	NORTH	-	m	TOP	134
RIG TYPE	ROT	DEPTHS		SPUD	85-07-05	SOUTH	-	m	BOT	489
CABLE TOP	-	KB ELEV	180.8	COMPTD	85-07-08	EAST	-	m	TRAY	8788
BOT	-	LOGGER	490.3	OFFCNF	85-08-07	WEST	-	m		
ROTRY TOP	40.5	DRILLER	490.5	WRKOVR	-	LAT	42-33-33			
BOT	490.5	DEEP END	-	ABNDND	-	LONG	80-01-44			
DRLG FLD	BRINE	PLUG BK	474.0							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
456.0 – 465.0	2.611	5927
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	131.9	CEM	0
178	25.3	179.0	CEM	0
114	17.3	475.3	CEM	
60	6.9	456.6	HAN	456.6

COMPLETION DATA

GAS	2.611	$10^3 m^3/d$
OIL	-	m^3/d
SIP	5771	kPa
FORM	Whirlpool	
INTRVL	460.6 - 463.1	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
168.5 – 169.5	-	-
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
34.0 – 482.5	GRL	SCH
34.0 – 485.0	CNL	"
155.0 – 489.0	DENL	"
184.0 – 485.5	LATL	"
184.0 – 490.0	MSFL	"
275.0 – 475.0	CBLK	"
399.0 – 474.0	CMPL	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.1		
	DRIFT / LAKE BOTTOM	40.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	120.4		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	141.0		
	SYLVANIA			
	BOIS BLANC	163.0		
	SPRINGVALE	179.5		
	ORISKANY			
SILURIAN	BASS ISLANDS	185.5		
	G SHALE	208.0		
	F SHALE	214.5		
	F SALT			
	E CARBONATE	250.0		
	D SALT/EQUIVALENT			
	C SHALE	273.9		
	B MARKER	280.7		
	B EQUIVALENT	287.0		
	B SALT			
	B ANHYDRITE	297.0		
	A2 CARBONATE	299.9		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	310.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	312.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	385.0		
	ROCHESTER	403.0		
	IRONDEQUOIT	413.2		
	REYNALES/FOSSIL HILL	414.8		
	THOROLD	417.5		
	GRIMSBY	420.1		
	CABOT HEAD	434.5		
	MANITOULIN			
	WHIRLPOOL	459.0		
ORDOVICIAN	QUEENSTON	463.2		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. Carter

CTY	Norfolk	TWP	Lake Erie	BLK	89	TRAC	R	LOT	-	CON	-
WELL NAME	Pembina #2 Lake Erie 89-R			PERMIT	6793			INIT CLASS	DEV		
OPERATOR	Pembina Exploration Co. Ltd.			TARGET	CLI			CUR STATUS	DH-ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Pembina Resources Limited			PERMIT	85-06-05	NORTH	-	m	TOP	143
RIG TYPE	ROT	DEPTHS		SPUD	85-08-10	SOUTH	-	m	BOT	501
CABLE TOP	-	KB ELEV	180.8	COMPTD	85-08-14	EAST	-	m	TRAY	4650
BOT	-	LOGGER	501.5	OFFCNF	85-09-13	WEST	-	m		
ROTRY TOP	41.5	DRILLER	501.8	WRKOVR	-	LAT	42-31-45			
BOT	501.8	DEEP END	-	ABNDND	85-08-14	LONG	80-02-49			
DRLG FLD	BRINE	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	53.5	139.9	CEM	0
178	25.3	190.5	CEM	0

COMPLETION DATA

GAS		$10^3 m^3/d$
OIL		m^3/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
166.0 – -	-	-
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 – 493.5	GRL	SCH
35.0 – 495.0	CNL	"
180.0 – 500.0	DENL	"
425.0 – 496.0	LATL	"
425.0 – 501.0	MSFL	"
425.0 – 490.0	CBLK	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.1		
	DRIFT / LAKE BOTTOM	41.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	130.2		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	147.0		
	SYLVANIA			
	BOIS BLANC	195.0		
	SPRINGVALE	198.0		
	ORISKANY			
SILURIAN	BASS ISLANDS	199.1		
	G SHALE	228.3		
	F SHALE	235.0		
	F SALT			
	E CARBONATE	271.7		
	D SALT/EQUIVALENT			
	C SHALE	294.5		
	B MARKER	304.6		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	317.8		
	A2 CARBONATE	323.0		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	331.0		
	A1 CARBONATE	333.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	337.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	402.2		
	ROCHESTER	419.3		
	IRONDEQUOIT	431.3		
	REYNALES/FOSSIL HILL	432.7		
	THOROLD	435.4		
	GRIMSBY	441.5		
	CABOT HEAD	453.5		
	MANITOULIN			
	WHIRLPOOL	477.6		
ORDOVICIAN	QUEENSTON	480.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. Carter

CTY	Norfolk	TWP	Lake Erie	BLK 93	TRAC 0	LOT	CON
WELL NAME	Consumers 13889, Norfolk Lake Erie 93-0			PERMIT	6763	INIT CLASS	DEV
OPERATOR	The Consumers' Gas Company			TARGET	CLI	CUR STATUS	GP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers			PERMIT	1985-05-01	NORTH	m	TOP	123.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-05-25	SOUTH	m	BOT	479.0
CABLE TOP		KB ELEV	181.1	COMPTD	1985-05-29	EAST	m	TRAY	7103
BOT		LOGGER	479.0	OFFCNF	1985-06-28	WEST	m		
ROTRY TOP	23.3	DRILLER	479.0	WRKOVR		LAT	42-32-50		
BOT	479.0	DEEP END		ABNDND		LONG	80-24-50		
DRLG FLD	Brine	PLUG BK	472.0						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
423.0 – 427.0	10.276	4872
466.0 – 469.5	5.921	6334
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	23.3	HAN	23.3
244	53.6	122.5	CEM	
178	29.8	189.1	CEM	
114	14.4	475.8	CEM	
60	7.0	419.7	HAN	

COMPLETION DATA

GAS 10.276 10³m³/d
OIL m³/d
SIP 4872 kPa
FORM Thorold-Grimsby
INTRVL 425.0-438.8 m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
189.0 – 469.0	DENL	Schlumberger
33.0 – 469.0	CRNL	"
200.0 – 475.0	LATL	"
200.0 – 478.0	MSFL	"
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REMARKS

Poor samples

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	23.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	122.5		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	151.0		
	SYLVANIA			
	BOIS BLANC	171.0		
	SPRINGVALE	187.0		
	ORISKANY	196.0		
SILURIAN	BASS ISLANDS	198.0		
	G SHALE	225.0		
	F SHALE	231.4		
	F SALT			
	E CARBONATE	269.0		
	D SALT/EQUIVALENT			
	C SHALE	292.6		
	B MARKER	301.7		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	315.7		
	A2 CARBONATE	320.9		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	331.7		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	338.0		
	ERAMOSA			
	GOAT ISLAND	346.7		
	GASPORT/WIARTON	381.2		
	DECEW	390.0		
	ROCHESTER	409.6		
	IRONDEQUOIT	421.0		
	REYNALES/FOSSIL HILL	421.9		
	THOROLD	424.2		
	GRIMSBY	425.9		
	CABOT HEAD	440.0		
	MANITOULIN			
	WHIRLPOOL	466.3		
ORDOVICIAN	QUEENSTON	468.8		
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. CArter

CTY	Norfolk	TWP	Lake Erie	BLK 93	TRAC Q	LOT	CON
WELL NAME	Consumers' 13890 Lake Erie 93-Q			PERMIT	6764	INIT CLASS	NPW
OPERATOR	The Consumers' Gas Company Ltd.			TARGET	CLI	CUR STATUS	GS

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	1985-05-01	NORTH	m	TOP	129
RIG TYPE	ROT	DEPTHS		SPUD	1985-05-22	SOUTH	m	BOT	492
CABLE TOP		KB ELEV	181.1	COMPTD	1985-05-24	EAST	m	TRAY	5797
BOT		LOGGER	491.8	OFFCNF	1986-05-24	WEST	m		
ROTRY TOP	26.2	DRILLER	492.0	WRKOVR		LAT	42-31-25		
BOT	492.0	DEEP END		ABNDND		LONG	80-23-57		
DRLG FLD	Brine	PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
438.0 – 448.0	0.176	4444.0
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	26.2	HAN	
244	53.6	128.1	CEM	
178	29.8	182.6	CEM	

COMPLETION DATA

GAS 10³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
33.0 – 476.0	CNL	Schlumberger
33.0 – 473.5	GRL	"
182.0 – 482.0	LDT	"
189.5 – 487.0	DLL	"
189.5 – 491.0	MSFL	"
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REMARKS

No operator picks till 145.0 samples start at 129.0. Impossible to separate Irondequoit / Reynales in samples.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	26.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	129.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	164.0		
	SYLVANIA			
	BOIS BLANC	180.0		
	SPRINGVALE			
	ORISKANY	192.0		
SILURIAN	BASS ISLANDS	205.9		
	G SHALE	235.5		
	F SHALE	241.9		
	F SALT			
	E CARBONATE	277.8		
	D SALT/EQUIVALENT			
	C SHALE	301.3		
	B MARKER	310.3		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	325.0		
	A2 CARBONATE	330.0		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	340.9		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	345.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	403.9		
	ROCHESTER	424.1		
	IRONDEQUOIT	436.5		
	REYNALES/FOSSIL HILL	438.0		
	THOROLD	439.6		
	GRIMSBY	443.1		
	CABOT HEAD	454.1		
	MANITOULIN	477.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	482.4		
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. Carter

CTY: Norfolk TWP: Lake Erie BLK 93 TRAC T LOT CON
WELL NAME Consumers' 13903 Lake Erie 93T PERMIT 6777 INIT CLASS NPW
OPERATOR The Consumers' Gas Company Ltd. TARGET CLI CUR STATUS CP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers			PERMIT	1985-05-01	NORTH	m	TOP	120
RIG TYPE	ROT	DEPTHS		SPUD	1985-06-03	SOUTH	m	BOT	501
CABLE TOP		KB ELEV	181.2	COMPTD	1985-06-05	EAST	m	TRAY	5613
BOT		LOGGER	500.0	OFFCNF	1986-06-05	WEST	m		
ROTRY TOP	25.4	DRILLER	500.0	WRKOVR		LAT	42-31-25		
BOT	500.0	DEEP END		ABNDND		LONG	80-20-35		
DRLG FLD	Brine	PLUG BK	484.0						

INITIAL GAS RECORD		
INTERVAL	FLOW	SIP
434.0 – 450.0	13.295	4751
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CASING AND TUBING RECORD				
DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	25.4	HAN	25.4
244	53.6	116.5	CEM	
178	29.8	171.3	CEM	
114	14.4	493.0	CEM	
60	7.0	430.0	HAN	

COMPLETION DATA		
GAS	13.295	10 ³m³/d
OIL		m³/d
SIP	4751	kPa
FORM	Thorold/Grimsby	
INTRVL	437.0-440.0	m
		m
		m
PERF ☐		OPEN HOLE ☐

INITIAL OIL RECORD		
INTERVAL	FLOW	DENSITY
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LOGGING RECORD		
INTERVAL	TYPE	COMPANY
171.0 – 489.0	DENL	Schlumberger
24.0 – 486.0	GRNL	"
175.0 – 495.0	LATL	"
175.0 – 499.0	MSFL	"
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REMARKS

Poor samples

INITIAL WATER RECORD		
INTERVAL	STAT LEV	TYPE
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CORING RECORD			
INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	25.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	120.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	144.0		
	SYLVANIA			
	BOIS BLANC	162.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	182.3		
	G SHALE	213.7		
	F SHALE	220.4		
	F SALT			
	E CARBONATE	257.8		
	D SALT/EQUIVALENT			
	C SHALE	279.6		
	B MARKER	288.0		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	301.5		
	A2 CARBONATE	306.3		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	315.9		
	A1 CARBONATE	318.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	319.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	403.4		
	ROCHESTER	419.8		
	IRONDEQUOIT	432.0		
	REYNALES/FOSSIL HILL	433.8		
	THOROLD	435.7		
	GRIMSBY	440.0		
	CABOT HEAD	450.8		
	MANITOULIN	475.0		
	WHIRLPOOL	477.7		
ORDOVICIAN	QUEENSTON	478.9		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: T. R. CArter

CTY: Norfolk TWP: Lake Erie BLK: 94 TRAC: R LOT: CON:
WELL NAME Consumers 13888 94-R PERMIT: 6762 INIT CLASS: NPW
OPERATOR The Consumers Gas Co. TARGET: CLI CUR STATUS CP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers			PERMIT	1985-05-01	NORTH	m	TOP	138.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-05-30	SOUTH	m	BOT	510.0
CABLE TOP		KB ELEV	181.1	COMPTD	1985-06-01	EAST	m	TRAY	7202
BOT		LOGGER	510.4	OFFCNF	1986-06-01	WEST	m		
ROTRY TOP	27.0	DRILLER	510.0	WRKOVR		LAT	42-31-14		
BOT	510.0	DEEP END		ABNDND		LONG	80-27-31		
DRLG FLD	Brine	PLUG BK	498.0						

INITIAL GAS RECORD		
INTERVAL	FLOW	SIP
485.0 – 489.0	0.394	6167
442.0 – 450.0	9.570	5021
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CASING AND TUBING RECORD				
DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	27.0	HAN	27.0
244	53.6	134.5	CEM	
178	29.8	192.0	CEM	
114	14.4	508.7	CEM	
60	7.0	439.5	HAN	

COMPLETION DATA		
GAS	9.57	10 ³m³/d
OIL		m³/d
SIP	5021	kPa
FORM	Thorold/Grimsby	
INTRVL	443.5-448.8	m
		m
		m
PERF ☐		OPEN HOLE ☐

INITIAL OIL RECORD		
INTERVAL	FLOW	DENSITY
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LOGGING RECORD		
INTERVAL	TYPE	COMPANY
202.0 – 506.0	LATL	SCH
202.0 – 510.0	MSFL	SCH
192.0 – 500.0	DENL	SCH
35.0 – 495.0	GRNL	SCH
–		
–		

REMARKS

Poor samples

INITIAL WATER RECORD		
INTERVAL	STAT LEV	TYPE
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CORING RECORD			
INTERVAL	LOCATION	NO	mm
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–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	27.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	130.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	169.5		
	SYLVANIA			
	BOIS BLANC	189.0		
	SPRINGVALE			
	ORISKANY	203.0		
SILURIAN	BASS ISLANDS	213.8		
	G SHALE	239.7		
	F SHALE	247.0		
	F SALT			
	E CARBONATE	284.3		
	D SALT/EQUIVALENT			
	C SHALE	307.2		
	B MARKER	317.3		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	332.0		
	A2 CARBONATE	336.7		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	348.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	352.0		
	ERAMOSA			
	GOAT ISLAND	366.0		
	GASPORT/WIARTON	390.6		
	DECEW	407.5		
	ROCHESTER	427.7		
	IRONDEQUOIT	440.5		
	REYNALES/FOSSIL HILL	441.8		
	THOROLD	443.0		
	GRIMSBY	445.0		
	CABOT HEAD	459.3		
	MANITOULIN	482.7		
	WHIRLPOOL	486.0		
ORDOVICIAN	QUEENSTON	488.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY Norfolk	TWP Lake Erie	BLK 94	TRAC Y	LOT	CON
WELL NAME Consumers' 13886 Lake Erie 94-Y		PERMIT 6760		INIT CLASS DEV	
OPERATOR The Consumers' Gas Company Ltd.		TARGET CLI		CUR STATUS DH	

DRILLING DATA		DATES		COORDINATES		SAMPLES
CONTRACTOR Underwater Gas Developers Ltd.		PERMIT	1985-05-01	NORTH	m	TOP 129
RIG TYPE ROT	DEPTHS	SPUD	1985-05-15	SOUTH	m	BOT 510
CABLE TOP	KB ELEV 181.2	COMPTD	1985-05-17	EAST	m	TRAY 1567
BOT	LOGGER 510.2	OFFCNF	1985-06-16	WEST	m	
ROTRY TOP 24.2	DRILLER 510.0	WRKOVR		LAT	42-30-02	
BOT 510.0	DEEP END	ABNDND		LONG	80-29-32	
DRLG FLD Brine	PLUG BK					

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	24.2	HAN	24.2
244	53.6	129.25	CEM	
178	29.8	199.46	CEM	

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
34.0 – 494.9	CNL	Schlumberger
199.0 – 499.9	LDT	"
34.0 – 491.0	GRL	"
207.5 – 506.0	MSFL	"
207.5 – 506.0	DLL	"
349.0 – 491.0	CBLK	"
–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
–			
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	24.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS	129.0		
	DUNDEE	135.3		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	175.0		
	SYLVANIA			
	BOIS BLANC	194.5		
	SPRINGVALE			
	ORISKANY	207.0		
SILURIAN	BASS ISLANDS	216.9		
	G SHALE	250.0		
	F SHALE	257.0		
	F SALT			
	E CARBONATE	293.2		
	D SALT/EQUIVALENT			
	C SHALE	316.6		
	B MARKER	325.0		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	341.0		
	A2 CARBONATE	344.0		
	A2 SALT	353.5		
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	354.8		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	358.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON	410.0		
	DECEW	419.0		
	ROCHESTER	438.7		
	IRONDEQUOIT	451.2		
	REYNALES/FOSSIL HILL	452.4		
	THOROLD	454.6		
	GRIMSBY	456.6		
	CABOT HEAD	470.7		
	MANITOULIN	492.5		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	495.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. CArter

CTY: Norfolk	TWP:	BLK: 96	TRAC: K	LOT:	CON:
WELL NAME Consumers' 13884 Lake Erie 96-K		PERMIT: 6758		INIT CLASS: DEV	
OPERATOR The Consumers' Gas Co. Ltd.		TARGET: CLI		CUR STATUS: D.H.	

DRILLING DATA		DATES		COORDINATES		SAMPLES
CONTRACTOR Underwater Gas Developers Ltd.		PERMIT:	1985-05-01	NORTH:	m	TOP: 120
RIG TYPE ROT	DEPTHS	SPUD:	1985-06-07	SOUTH:	m	BOT: 498
CABLE TOP:	KB ELEV: 181.2	COMPTD:	1985-06-09	EAST:	m	TRAY: 1641
BOT	LOGGER: 500.3	OFFCNF:	1985-07-09	WEST:	m	
ROTRY TOP 26.9	DRILLER: 501.0	WRKOVR:		LAT:	42-32-20	
BOT 501.0	DEEP END:	ABNDND:		LONG:	80-35-03.3	
DRLG FLD: Brine	PLUG BK:					

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM.	WEIGHT	SET AT	HOW SET	RECOV.
273	75.9	26.9	HAN	26.9
244	53.6	118.6	CEM	
178	29.8	191.9	CEM	

COMPLETION DATA

GAS:	10³m³/d
OIL:	m³/d
SIP:	kPa
FORM:	
INTRVL:	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
26.5 – 483.0	GRL	Schlumberger
26.5 – 486.0	CNL	"
192.0 – 491.0	LDT	"
194.5 – 496.0	MSFL	"
194.5 – 496.0	DLL	"
–		
–		

REMARKS

Reynales/Irondequoit impossible to separate in samples. Some red sand/shale at top of Thorold.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
–			
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	26.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	119.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	165.0		
	SYLVANIA			
	BOIS BLANC	192.0		
	SPRINGVALE			
	ORISKANY	205.0		
SILURIAN	BASS ISLANDS	208.6		
	G SHALE	236.8		
	F SHALE	243.8		
	F SALT			
	E CARBONATE	280.4		
	D SALT/EQUIVALENT			
	C SHALE	301.9		
	B MARKER	312.6		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	326.2		
	A2 CARBONATE	331.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	343.9		
	A1 CARBONATE	344.7		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	349.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	411.0		
	ROCHESTER	428.6		
	IRONDEQUOIT	438.5		
	REYNALES/FOSSIL HILL	439.6		
	THOROLD	441.7		
	GRIMSBY	444.8		
	CABOT HEAD	456.5		
	MANITOULIN	477.9		
	WHIRLPOOL	481.0		
ORDOVICIAN	QUEENSTON	482.1		
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T.R. Carter

CTY	Norfolk	TWP	Lake Erie	BLK	96	TRAC	P	LOT	-	CON	-
WELL NAME	Consumers' 13883 Lake Erie 96-P					PERMIT	6757	INIT CLASS	DEV		
OPERATOR	The Consumers Gas Co. Ltd.					TARGET	CLI	CUR STATUS	DH-ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	85-05-01	NORTH	-	m	TOP	126.0
RIG TYPE	ROT	DEPTHS		SPUD	85-05-12	SOUTH	-	m	BOT	513.0
CABLE TOP	-	KB ELEV	181.1	COMPTD	85-05-14	EAST	-	m	TRAY	6802
BOT	-	LOGGER	512.9	OFFCNF	85-06-13	WEST	-	m		
ROTRY TOP	24.9	DRILLER	514.0	WRKOVR	-	LAT	42-31-01			
BOT	514.0	DEEP END	-	ABNDND	85-05-15	LONG	80-39-04			
DRLG FLD	BRINE	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	24.9	HAN	24.9
244	53.6	125.7	CEM	0
178	29.8	200.0	CEM	0

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
33.0 – 493.5	GRL	SCH
33.0 – 497.0	CNL	"
200.0 – 502.0	LDT	"
207.0 – 507.0	LATL	"
207.0 – 511.5	MSFL	"
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	24.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	110.0		
	MARCELLUS			
	DUNDEE	135.6		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	189.0		
	SYLVANIA			
	BOIS BLANC	207.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	219.0		
	G SHALE	249.2		
	F SHALE	256.1		
	F SALT			
	E CARBONATE	293.2		
	D SALT/EQUIVALENT			
	C SHALE	316.5		
	B MARKER	328.5		
	B EQUIVALENT	334.0		
	B SALT			
	B ANHYDRITE	341.0		
	A2 CARBONATE	346.5		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	358.6		
	A1 CARBONATE	360.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	366.5		
	ERAMOSA			
	GOAT ISLAND	372.5		
	GASPORT/WIARTON	405.5		
	DECEW	431.0		
	ROCHESTER	450.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	460.0		
	THOROLD	463.3		
	GRIMSBY	464.4		
	CABOT HEAD	475.8		
	MANITOULIN	497.8		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	503.6		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: T. R. Carter

CTY	Elgin	TWP	Lake Erie	BLK	113	TRAC	O	LOT	-	CON	-
WELL NAME	Diamond Shamrock Lake Erie 113-O					PERMIT	6817	INIT CLASS	NFW		
OPERATOR	Diamond Shamrock Exploration of Canada Ltd.					TARGET	CAM	CUR STATUS	DH-ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	85-06-13	NORTH	-	m	TOP	66
RIG TYPE	ROT	DEPTHS		SPUD	85-08-02	SOUTH	-	m	BOT	1296
CABLE TOP	-	KB ELEV	180.0	COMPTD	85-08-14	EAST	-	m	TRAY	9076- 77
BOT	-	LOGGER	1295.0	OFFCNF	86-08-14	WEST	-	m		
ROTRY TOP	27.0	DRILLER	1296.0	WRKOVR	-	LAT	42-27-51			
BOT	1296.0	DEEP END	-	ABNDND	85-08-14	LONG	81-29-48			
DRLG FLD	BRINE	PLUG BK	28.0							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
171 – -	Show	-
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	81.2	64.3	CEM	0
244.5	53.6	262.9	CEM	0
177.8	29.8	638.8	CEM	0

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☒	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
165 – 174	Show	-
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
60.0 – 280	CMPL	SCH
29.0 – 1285.0	GRL	"
50.0 – 1288.0	CNL	"
64.0 – 1294.0	LDT	"
270.0 – 1291.0	LATL	"
270.0 – 1294.0	MSFL	"
29.0 – 1291.0	SONL	" →

REMARKS

Ordovician picks are uncertain

954.0-1285.0 | NGRS | SCH

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.3		
	DRIFT / LAKE BOTTOM	27.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	55.3		
	MARCELLUS			
	DUNDEE	125.0		
	COLUMBUS	176.0		
	LUCAS			
	AMHERSTBURG	180.5		
	SYLVANIA			
	BOIS BLANC	252.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	276.0		
	G SHALE	323.0		
	F SHALE	330.0		
	F SALT			
	E CARBONATE	369.4		
	D SALT/EQUIVALENT			
	C SHALE	394.5		
	B MARKER	404.4		
	B EQUIVALENT	409.7		
	B SALT	418.0		
	B ANHYDRITE	450.9		
	A2 CARBONATE	453.7		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	470.8		
	A1 CARBONATE	475.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	487.6		
	ERAMOSA			
	GOAT ISLAND	502.0		
	GASPORT/WIARTON	557.0		
	DECEW			
	ROCHESTER	565.5		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	580.5		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	581.9		
	MANITOULIN	615.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	623.3		
	BLUE MOUNTAIN - GEORG BAY	752.9		
	COLLINGWOOD			
	COBOURG	958.9		
	VERULAM	976.5		
	KIRKFIELD	1003.4		
	COBOCONK	1074.8		
	GULL RIVER	1116.4		
	SHADOW LAKE	1209.1		
CAMBRIAN		1210.2		
PRECAMBRIAN		1273.3		

GEOLOGY BY: T. R. Carter

CTY	Elgin	TWP	Lake Erie	BLK	117	TRAC	G	LOT	-
CON	-								
WELL NAME	Diamond Shamrock Lake Erie 117-G			PERMIT	6818	INIT CLASS	NPW		
OPERATOR	Diamond Shamrock Exploration of Canada Ltd.			TARGET	CAM	CUR STATUS	DH-ABD		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	85-06-13	NORTH	- m	TOP	96
RIG TYPE	ROT	DEPTHS		SPUD	85-08-14	SOUTH	- m	BOT	1269
CABLE TOP	-	KB ELEV	180.0	COMPTD	85-08-23	EAST	- m	TRAY	9091- 92
BOT	-	LOGGER	1268.8	OFFCNF	86-08-23	WEST	- m		
ROTRY TOP	27.6	DRILLER	1269.0	WRKOVR	-	LAT	42-28-00		
BOT	1269.0	DEEP END	-	ABNDND	85-08-23	LONG	81-08-49		
DRLG FLD	BRINE	PLUG BK	27.0						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
130.0 – -	Show	-
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	81.2	96.4	CEM	0
244.5	53.6	221.0	CEM	0
177.8	29.8	943.8	CEM	0

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
92.0 –1258.8	GRL	SCH
220.4 –1262.8	CNL	"
220.4 –1268.0	LDT	"
96.4 –1265.0	SONL	"
232.0 –1257.0	LATL	"
232.0 –1257.0	MSFL	"
999.0 –1254.5	NGRS	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
223.0 – -	-	SUL
–		
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.3		
	DRIFT / LAKE BOTTOM	27.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	96.0		
	MARCELLUS	119.7		
	DUNDEE	125.5		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	179.0		
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE	219.0		
	ORISKANY	252.0		
SILURIAN	BASS ISLANDS	255.0		
	G SHALE	288.8		
	F SHALE	296.2		
	F SALT			
	E CARBONATE	333.8		
	D SALT/EQUIVALENT			
	C SHALE	358.6		
	B MARKER	370.7		
	B EQUIVALENT	376.4		
	B SALT			
	B ANHYDRITE	387.3		
	A2 CARBONATE	390.4		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	406.2		
	A1 CARBONATE	409.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	421.1		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	486.7		
	ROCHESTER	492.4		
	IRONDEQUOIT	508.3		
	REYNALES/FOSSIL HILL	511.0		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	513.6		
	MANITOULIN	543.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	548.4		
	BLUE MOUNTAIN - GEORG BAY	717.5		
	COLLINGWOOD			
	COBOURG	931.0		
	VERULAM	943.3		
	KIRKFIELD	971.0		
	COBOCONK	1057.0		
	GULL RIVER	1082.3		
	SHADOW LAKE	1164.1		
CAMBRIAN		1166.7		
PRECAMBRIAN		1247.8		

GEOLOGY BY T. R. Carter

CTY	Elgin	TWP	Lake Erie	BLK	122	TRAC	Q	LOT	
CON									
WELL NAME	Consumers 13892 122-Q			PERMIT	6766	INIT CLASS	DEV		
OPERATOR	The Consumers' Gas Company Ltd.			TARGET	CLI	CUR STATUS	CP		

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Underwater Gas Developers			PERMIT	1985-05-01	NORTH	m	TOP	132
RIG TYPE	ROT	DEPTHS		SPUD	1985-06-10	SOUTH	m	BOT	555
CABLE TOP		KB ELEV	181.2	COMPTD	1985-06-12	EAST	m	TRAY	4648
BOT		LOGGER	555.3	OFFCNF	1985-07-12	WEST	m		
ROTRY TOP	27.6	DRILLER	556.0	WRKOVR		LAT	42-26-16		
BOT	556.0	DEEP END		ABNDND		LONG	80-43-57		
DRLG FLD		PLUG BK	540.0						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
496.0 – 503.0	2.550	5386
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	27.6	HAN	27.6
244	53.6	132.6	CEM	
178	29.8	202.3	CEM	
114	14.4	550.9	CEM	
60	7.0	492.8	HAN	

COMPLETION DATA

GAS 2.550	10 ³m³/d
OIL	m³/d
SIP 5386	kPa
FORM Thorold/Grimsby	
INTRVL 498.2-500.5	m
	m
	m
PERF ☒	OPEN HOLE ☐

REMARKS

Poor Samples

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
27.0 – 540.0	GRNL	Schlumberger
202.0 – 545.0	DENL	"
210.0 – 555.0	MSFL	"
210.0 – 555.0	LATL	"
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–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	27.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	126.0		
	MARCELLUS			
	DUNDEE	164.3		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	204.0		
	SYLVANIA			
	BOIS BLANC	224.5		
	SPRINGVALE			
	ORISKANY	239.5		
SILURIAN	BASS ISLANDS	252.2		
	G SHALE	288.5		
	F SHALE	296.4		
	F SALT			
	E CARBONATE	334.9		
	D SALT/EQUIVALENT			
	C SHALE	358.6		
	B MARKER	368.9		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	382.7		
	A2 CARBONATE	387.7		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	400.7		
	A1 CARBONATE	402.9		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	408.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	466.0		
	ROCHESTER	482.6		
	IRONDEQUOIT	494.5		
	REYNALES/FOSSIL HILL	495.7		
	THOROLD	497.7		
	GRIMSBY	499.9		
	CABOT HEAD	513.5		
	MANITOULIN			
	WHIRLPOOL	534.8		
ORDOVICIAN	QUEENSTON	537.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. Carter

CTY: Norfolk	TWP: Lake Erie	BLK: 127	TRAC: E	LOT:	CON:
WELL NAME: Consumers 13902 Lake Erie 127E		PERMIT: 6776		INIT CLASS: DEV	
OPERATOR: The Consumers' Gas Company Ltd.		TARGET: CLI		CUR STATUS: GP	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Underwater Gas Developers			PERMIT	1985-05-01	NORTH		m	TOP	147.0
RIG TYPE:	ROT	DEPTHS		SPUD	1985-05-18	SOUTH		m	BOT	510.0
CABLE TOP:		KB ELEV	181.2	COMPTD	1985-05-20	EAST		m	TRAY	5759
BOT:		LOGGER	509.8	OFFCNF	1985-06-20	WEST		m		
ROTRY TOP:	26.5	DRILLER	510.0	WRKOVR		LAT	42-29-15			
BOT:	510.0	DEEP END:		ABNDND		LONG	80-19-43			
DRLG FLD:	BRINE	PLUG BK:	500.8							

INITIAL GAS RECORD		
INTERVAL	FLOW	SIP
455.0 – 473.0	10.276	4863
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CASING AND TUBING RECORD				
DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	26.5	HAN	26.5
244	53.6	147.8	CEM	
178	29.8	202.4	CEM	
114	14.4	505.6	CEM	
60	7.0	455.4	HAN	

COMPLETION DATA		
GAS	10.276	10³m³/d
OIL		m³/d
SIP	4863	kPa
FORM	Thorold/Grimsby	
INTRVL	459.5-472.5	m
		m
		m
PERF ☒	OPEN HOLE ☐	

INITIAL OIL RECORD		
INTERVAL	FLOW	DENSITY
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LOGGING RECORD		
INTERVAL	TYPE	COMPANY
207.0 – 505.0	LATL	Schlumberger
207.0 – 509.0	MSFL	"
393.0 – 500.0	CMPL	"
33.0 – 496.0	GRNL	"
202.0 – 500.0	DENL	"
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–		

REMARKS

Poor samples

INITIAL WATER RECORD		
INTERVAL	STAT LEV	TYPE
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CORING RECORD			
INTERVAL	LOCATION	NO	mm
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–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK		A2 ANHYDRITE			
	KB / LAKE LEVEL	6.5				A1 CARBONATE	345.8		
	DRIFT / LAKE BOTTOM	26.5				A1 SALT			
DEVONIAN	PORT LAMBTON					A1 ANHYDRITE			
	KETTLE POINT					GUELPH	349.3		
	HAMILTON					ERAMOSA			
	MARCELLUS					GOAT ISLAND			
	DUNDEE	135.0			SILURIAN	GASPORT/WIARTON			
	COLUMBUS					DECEW	419.6		
	LUCAS					ROCHESTER	439.3		
	AMHERSTBURG	168.0				IRONDEQUOIT	452.8		
	SYLVANIA					REYNALES/FOSSIL HILL	454.8		
	BOIS BLANC	190.0				THOROLD	456.3		
	SPRINGVALE					GRIMSBY	460.2		
	ORISKANY					CABOT HEAD	472.6		
SILURIAN	BASS ISLANDS	204.2				MANITOULIN	490.0		
	G SHALE	237.8				WHIRLPOOL	491.5		
	F SHALE	245.0			ORDOVICIAN	QUEENSTON	493.0		
	F SALT					BLUE MOUNTAIN - GEORG BAY			
	E CARBONATE	281.7				COLLINGWOOD			
	D SALT/EQUIVALENT					COBOURG			
	C SHALE	304.1				VERULAM			
	B MARKER	317.8				KIRKFIELD			
	B EQUIVALENT					COBOCONK			
	B SALT					GULL RIVER			
	B ANHYDRITE	330.8				SHADOW LAKE			
	A2 CARBONATE	341.0				CAMBRIAN			
	A2 SALT					PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY: Elgin	TWP: Lake Erie	BLK: 156	TRAC: R	LOT: -	CON: -
WELL NAME: Consumers' 13893 Lake Erie 156-R		PERMIT: 6767		INIT CLASS: DEV	
OPERATOR: The Consumers' Gas Co. Ltd.		TARGET: CLI		CUR STATUS: G.S.-ABD	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Underwater Gas Developers Ltd.			PERMIT	85-05-01	NORTH	-	m	TOP	99
RIG TYPE:	ROT	DEPTHS		SPUD	85-09-18	SOUTH	-	m	BOT	591
CABLE TOP:	-	KB ELEV:	180.9	COMPTD	85-09-21	EAST	-	m	TRAY	5649
BOT:	-	LOGGER:	594.0	OFFCNF	85-10-21	WEST	-	m		
ROTRY TOP:	27.9	DRILLER:	595.1	WRKOVR	-	LAT	42-21-12			
BOT:	595.1	DEEP END:	-	ABNDND	85-10-22	LONG	80-47-31			
DRLG FLD:	BRINE	PLUG BK:	-							

INITIAL GAS RECORD		
INTERVAL	FLOW	SIP
407.0 – 420.0	0.504	4897
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CASING AND TUBING RECORD				
DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	27.9	HAN	27.9
244	53.6	98.9	CEM	-
178	29.8	213.3	CEM	-

COMPLETION DATA		
GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD		
INTERVAL	FLOW	DENSITY
418.0 – -	-	-
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LOGGING RECORD		
INTERVAL	TYPE	COMPANY
35.0 – 575.0	GRL	SCH
35.0 – 578.0	CNL	"
213.0 – 584.0	LDT	"
214.0 – 588.0	LATL	"
214.0 – 593.0	MSFL	"
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REMARKS

INITIAL WATER RECORD		
INTERVAL	STAT LEV	TYPE
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CORING RECORD			
INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK		A2 ANHYDRITE	406.2		
	KB / LAKE LEVEL	6.2				A1 CARBONATE	407.2		
	DRIFT / LAKE BOTTOM	27.9				A1 SALT			
DEVONIAN	PORT LAMBTON					A1 ANHYDRITE			
	KETTLE POINT	105.0				GUELPH	410.0		
	HAMILTON	134.0				ERAMOSA			
	MARCELLUS					GOAT ISLAND			
	DUNDEE	188.2			SILURIAN	GASPORT/WIARTON			
	COLUMBUS					DECEW	491.6		
	LUCAS					ROCHESTER	528.1		
	AMHERSTBURG	228.0				IRONDEQUOIT	540.0		
	SYLVANIA					REYNALES/FOSSIL HILL	542.4		
	BOIS BLANC	255.0				THOROLD	544.2		
	SPRINGVALE					GRIMSBY	545.6		
	ORISKANY	261.0				CABOT HEAD	558.2		
SILURIAN	BASS ISLANDS	267.0				MANITOULIN	579.0		
	G SHALE					WHIRLPOOL	585.0		
	F SHALE				ORDOVICIAN	QUEENSTON	586.0		
	F SALT					BLUE MOUNTAIN - GEORG BAY			
	E CARBONATE	343.0				COLLINGWOOD			
	D SALT/EQUIVALENT					COBOURG			
	C SHALE	365.8				VERULAM			
	B MARKER	377.0				KIRKFIELD			
	B EQUIVALENT	382.6				COBOCONK			
	B SALT					GULL RIVER			
	B ANHYDRITE	389.7				SHADOW LAKE			
	A2 CARBONATE	394.6				CAMBRIAN			
	A2 SALT					PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY	Elgin	TWP	Lake Erie	BLK	157	TRAC	O
LOT	-	CON	-				
WELL NAME	Consumers' 13896 Lake Erie 157-O	PERMIT	6770	INIT CLASS	DEV		
OPERATOR	The Consumers' Gas Co. Ltd.	TARGET	CLI	CUR STATUS	GP		

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	101.2
BOT	-	LOGGER	588.1
ROTRY TOP	27.9	DRILLER	589.0
BOT	589.0	DEEP END	-
DRLG FLD	BRINE	PLUG BK	576.0

DATES		COORDINATES		SAMPLES	
PERMIT	85-05-01	NORTH	- m	TOP	105
SPUD	85-09-11	SOUTH	- m	BOT	588
COMPTD	85-09-14	EAST	- m	TRAY	7647
OFFCNF	85-10-14	WEST	- m		
WRKOVR	-	LAT	42-22-20		
ABNDND	-	LONG	80-54-31		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
533.0 – 541.0	2.966	5535
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	27.9	HAN	27.9
244	53.6	103.2	CEM	0
178	29.8	222.4	CEM	0
114	14.4	586.3	CEM	0
60	7.0	532.2	HAN	0

COMPLETION DATA

GAS	2.966	$10^3m^3/d$
OIL	-	m^3/d
SIP	5535	kPa
FORM	Grimsby	
INTRVL	535.8 - 540.0	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 – 568.0	GRL	SCH
35.0 – 572.5	CNL	"
223.0 – 578.0	LDT	"
230.0 – 581.0	LATL	"
230.0 – 587.0	MSFL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	AAA
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	27.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	93.0		
	HAMILTON	126.0		
	MARCELLUS			
	DUNDEE	178.2		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	210.0		
	SYLVANIA			
	BOIS BLANC	240.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	252.0		
	G SHALE	284.3		
	F SHALE	291.7		
	F SALT			
	E CARBONATE	329.8		
	D SALT/EQUIVALENT			
	C SHALE	351.8		
	B MARKER	364.0		
	B EQUIVALENT	369.7		
	B SALT			
	B ANHYDRITE	377.3		
	A2 CARBONATE	382.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	394.2		
	A1 CARBONATE	395.8		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	400.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	491.2		
	ROCHESTER	512.7		
	IRONDEQUOIT	531.1		
	REYNALES/FOSSIL HILL	532.1		
	THOROLD	534.3		
	GRIMSBY	535.5		
	CABOT HEAD	546.2		
	MANITOULIN	569.0		
	WHIRLPOOL	574.0		
ORDOVICIAN	QUEENSTON	575.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY	Elgin	TWP	Lake Erie	BLK	159	TRAC	K
LOT		CON					
WELL NAME	Consumers' 13897 Lake Erie 159-K	PERMIT	6771	INIT CLASS	DEV		
OPERATOR	The Consumers' Gas Co. Ltd.	TARGET	CLI	CUR STATUS	DH-ABD		

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	181.2
BOT		LOGGER	591.3
ROTRY TOP	28.5	DRILLER	592.0
BOT	592.0	DEEP END	
DRLG FLD	Brine	PLUG BK	

DATES		COORDINATES		SAMPLES	
PERMIT	1985-05-01	NORTH	m	TOP	102
SPUD	1985-06-17	SOUTH	m	BOT	591
COMPTD	1985-06-20	EAST	m	TRAY	1212
OFFCNF	1985-07-20	WEST	m		
WRKOVR		LAT	42-22-10		
ABNDND	1985-06-20	LONG	81-00-10		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	28.5	HAN	28.5
244	53.6	102.3	CEM	
178	29.8	213.2	CEM	

COMPLETION DATA

GAS		$10^3m^3/d$
OIL		m^3/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

REMARKS

Poor samples

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
28.5 – 572.5	GRL	Schlumberger
28.5 – 576.0	CNL	"
217.5 – 581.0	LDT	"
220.0 – 587.0	LATL	"
220.0 – 590.5	MSFL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	AAA
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	28.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	91.8		
	HAMILTON	94.7		
	MARCELLUS	141.0		
	DUNDEE	148.7		
	COLUMBUS			
	LUCAS	184.5		
	AMHERSTBURG	196.0		
	SYLVANIA			
	BOIS BLANC	215.0		
	SPRINGVALE	225.0		
	ORISKANY			
SILURIAN	BASS ISLANDS	231.0		
	G SHALE	278.3		
	F SHALE	286.4		
	F SALT			
	E CARBONATE	324.8		
	D SALT/EQUIVALENT			
	C SHALE	347.2		
	B MARKER	363.6		
	B EQUIVALENT	369.0		
	B SALT			
	B ANHYDRITE	376.4		
	A2 CARBONATE	381.9		
	A2 SALT	392.3		
SILURIAN	A2 ANHYDRITE	393.4		
	A1 CARBONATE	395.3		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	400.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	505.0		
	ROCHESTER	520.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	537.5		
	THOROLD	541.4		
	GRIMSBY	543.5		
	CABOT HEAD	550.5		
	MANITOULIN	576.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	582.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. CArter

CTY	Elgin	TWP	Lake Erie	BLK	160	TRAC	P
LOT		CON					
WELL NAME	Consumers' 13898 Lake Erie 160-P	PERMIT	6772	INIT CLASS	DEV		
OPERATOR	The Consumers' Gas Company Ltd.	TARGET	CLI	CUR STATUS	GP		

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	181.2
BOT		LOGGER	615.2
ROTRY TOP	29.0	DRILLER	615.0
BOT	615.0	DEEP END	
DRLG FLD	Brine	PLUG BK	608.5

DATES		COORDINATES			SAMPLES	
PERMIT	1985-05-01	NORTH		m	TOP	75.0
SPUD	1985-06-21	SOUTH		m	BOT	615.0
COMPTD	1985-06-23	EAST		m	TRAY	1469
OFFCNF	1985-07-23	WEST		m		
WRKOVR		LAT	42-21-30			
ABNDND		LONG	81-09-07			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
567.0 – 574.0	3.378	5884
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	29.0	HAN	29.0
244	53.6	76.3	CEM	
178	29.8	242.9	CEM	
114	14.4	611.7	CEM	
60	7.0	557.4	HAN	

COMPLETION DATA

GAS	3.378	10³m³/d
OIL		m³/d
SIP	5884	kPa
FORM	Grimsby	
INTRVL	570.6-573.0	m
		m
		m
PERF ☒		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
28.0 – 610.0	GRNL	Schlumberger
251.0 – 610.0	LATL	"
251.0 – 615.0	MSFL	"
240.0 – 605.0	DENL	"
500.0 – 608.0	CMPL	"
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REMARKS

Poor samples

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	29.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	67.0		
	HAMILTON	132.4		
	MARCELLUS			
	DUNDEE	192.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	246.0		
	SYLVANIA			
	BOIS BLANC	298.5		
	SPRINGVALE			
	ORISKANY	303.0		
SILURIAN	BASS ISLANDS	307.5		
	G SHALE	345.6		
	F SHALE	353.2		
	F SALT			
	E CARBONATE	391.8		
	D SALT/EQUIVALENT			
	C SHALE	415.0		
	B MARKER	425.5		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	440.3		
	A2 CARBONATE	445.7		
	A2 SALT	460.6		
SILURIAN	A2 ANHYDRITE	461.7		
	A1 CARBONATE	464.6		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	468.9		
	ERAMOSA			
	GOAT ISLAND	490.8		
	GASPORT/WIARTON	518.0		
	DECEW	540.5		
	ROCHESTER	548.2		
	IRONDEQUOIT	565.1		
	REYNALES/FOSSIL HILL	566.7		
	THOROLD	568.4		
	GRIMSBY	570.3		
	CABOT HEAD	574.3		
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	606.5		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY	Kent	TWP	Lake Erie	BLK	175	TRAC	H
LOT	-	CON	-				
WELL NAME	Diamond Shamrock Lake Erie 175-H	PERMIT	6814	INIT CLASS	NPW		
OPERATOR	Diamond Shamrock Exploration of Canada Ltd	TARGET	CAM	CUR STATUS	GP		

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	180.1
BOT	-	LOGGER	1338.5
ROTRY TOP	27.5	DRILLER	1340.0
BOT	1340.0	DEEP END	-
DRLG FLD	BRINE	PLUG BK	665.0

DATES		COORDINATES			SAMPLES	
PERMIT	85-06-13	NORTH	-	m	TOP	69
SPUD	85-07-21	SOUTH	-	m	BOT	1338
COMPTD	85-08-02	EAST	-	m	TRAY	9093- 94
OFFCNF	86-08-02	WEST	-	m		
WRKOVR	-	LAT	42-18-06			
ABNDND	-	LONG	81-42-48			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
640 - 642	2.611	6352
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	81.2	69	CEM	0
244.5	53.6	330	CEM	0
177.8	29.8	693.1	CEM	0
114.3	17.3	624.2	CEM	0
60.3	7.0	617.6	HAN	0

COMPLETION DATA

GAS	2.611	10³m³/d
OIL	-	m³/d
SIP	6392	kPa
FORM	Cabot Head	
INTRVL	640 - 642	m
		m
		m
PERF ☐		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
68.5 – 1329.0	GRL	SCH
329.0 – 1331.0	CNL	"
329.0 – 1337.0	LDT	"
338.0 – 1328.0	LATL	"
338.0 – 1333.0	MSFL	"
54.0 – 1334.0	SONL	"
992.0 – 1327.0	CBLK	"

REMARKS

Detrital quartz at 219.0.
Goat Island pick unreliable.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
1251 – 1277	254	SAL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	27.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	69.0		
	HAMILTON	99.0		
	MARCELLUS	156.0		
	DUNDEE	171.5		
	COLUMBUS			
	LUCAS	222.0		
	AMHERSTBURG	246.0		
	SYLVANIA			
	BOIS BLANC	267.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	297.0		
	G SHALE	353.4		
	F SHALE	361.0		
	F SALT			
	E CARBONATE	401.0		
	D SALT/EQUIVALENT			
	C SHALE	425.0		
	B MARKER	444.6		
	B EQUIVALENT	450.2		
	B SALT			
	B ANHYDRITE	498.8		
	A2 CARBONATE	501.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	518.7		
	A1 CARBONATE	521.3		
	A1 SALT			
	A1 ANHYDRITE	523.4		
	GUELPH	525.4		
	ERAMOSA			
	GOAT ISLAND	560.0		
	GASPORT/WIARTON	594.0		
	DECEW			
	ROCHESTER	613.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	624.7		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	628.2		
	MANITOULIN	667.2		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	675.6		
	BLUE MOUNTAIN - GEORG BAY	801.5		
	COLLINGWOOD			
	COBOURG	997.5		
	VERULAM	1011.0		
	KIRKFIELD	1036.8		
	COBOCONK	1123.2		
	GULL RIVER	1150.6		
	SHADOW LAKE	1254.4		
	CAMBRIAN	1256.6		
	PRECAMBRIAN	1321.3		

GEOLOGY BY: T. R. Carter

CTY	Kent	TWP	Lake Erie	BLK	175	TRAC	T	LOT	-	CON	-
WELL NAME	Diamond Shamrock Lake Erie 175-T			PERMIT	6871			INIT CLASS	NPW		
OPERATOR	Diamond Shamrock Exploration of Canada Ltd			TARGET	CAM			CUR STATUS	DH-ABD		

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	180.1
BOT	-	LOGGER	1364.0
ROTRY TOP	28.9	DRILLER	1365.0
BOT	1365.0	DEEP END	-
DRLG FLD	BRINE	PLUG BK	28.0

DATES	
PERMIT	85-08-21
SPUD	85-08-23
COMPTD	85-09-03
OFFCNF	86-09-03
WRKOVR	-
ABNDND	85-09-03

COORDINATES		
NORTH	-	m
SOUTH	-	m
EAST	-	m
WEST	-	m
LAT	42-16-54	
LONG	81-40-55	

SAMPLES	
TOP	69
BOT	1365
TRAY	9088- 89

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	81.2	68.8	CEM	0
244.5	53.6	326.4	CEM	0
177.8	29.8	697.2	CEM	0

COMPLETION DATA

GAS		$10^3 m^3/d$
OIL		m^3/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
335.0 – 700.0	DIPM	SCH
61.0 –1345.0	GRL	"
325.8 –1348.0	CNL	"
325.8 –1353.0	LDT	"
328.0 –1359.0	LATL	"
328.0 –1363.0	MSFL	"
69.0 –1363.5	SONL	"

REMARKS

Poor samples.
Ordovician carbonate
picks are unrelaible.
Verulam not picked.

1075.0-1344.0 NGRS SCH

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
1272 – 1304	761	SAL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	28.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	69.0		
	HAMILTON	106.2		
	MARCELLUS	153.0		
	DUNDEE	169.0		
	COLUMBUS	227.0		
	LUCAS	228.0		
	AMHERSTBURG	236.0		
	SYLVANIA			
	BOIS BLANC	288.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	321.0		
	G SHALE	364.5		
	F SHALE	372.0		
	F SALT			
	E CARBONATE	411.0		
	D SALT/EQUIVALENT			
	C SHALE	436.9		
	B MARKER	454.5		
	B EQUIVALENT	460.3		
	B SALT	466.7		
	B ANHYDRITE	513.7		
	A2 CARBONATE	516.1		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	536.3		
	A1 CARBONATE	538.8		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	556.2		
	ERAMOSA			
	GOAT ISLAND	592.8		
	GASPORT/WIARTON	603.2		
	DECEW			
	ROCHESTER	629.1		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	642.0		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	645.0		
	MANITOULIN	683.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	691.3		
	BLUE MOUNTAIN - GEORG BAY	817.0		
	COLLINGWOOD			
	COBOURG	1017.0		
	VERULAM			
	KIRKFIELD	1135.7		
	COBOCONK	1183.1		
	GULL RIVER	1206.2		
	SHADOW LAKE	1273.9		
CAMBRIAN		1281.2		
PRECAMBRIAN		1344.3		

GEOLOGY BY T. R. Carter

CTY	Elgin	TWP	Lake Erie	BLK	182	TRAC	U	LOT	-	CON	-
WELL NAME	Consumers' 13899 Lake Erie 182-U			PERMIT	6773			INIT CLASS	DEV		
OPERATOR	The Consumers' Gas Co. Ltd.			TARGET	CLI			CUR STATUS	GP		

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	181.1
BOT	-	LOGGER	645.7
ROTRY TOP	29.2	DRILLER	646.0
BOT	646.0	DEEP END	-
DRLG FLD	BRINE	PLUG BK	625.0

DATES	
PERMIT	85-05-01
SPUD	85-09-07
COMPTD	85-09-10
OFFCNF	85-10-10
WRKOVR	-
ABNDND	-

COORDINATES		
NORTH	-	m
SOUTH	-	m
EAST	-	m
WEST	-	m
LAT	42-15-21	
LONG	81-05-16	

SAMPLES	
TOP	114
BOT	645
TRAY	8770

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
592.0 – 601.5	18.172	5933
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	29.2	HAN	29.2
244	53.6	113.3	CEM	0
178	29.8	239.3	CEM	0
114	14.4	635.4	CEM	0
60	7.0	590.7	HAN	0

COMPLETION DATA

GAS	18.172	$10^3 m^3/d$
OIL	-	m^3/d
SIP	5933	kPa
FORM	Thorold/Grimsby	
INTRVL	595.0 - 601.0	m
		m
		m
PERF ☒	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 – 626.0	GRL	SCH
35.0 – 630.0	CNL	"
240.0 – 635.0	LDT	"
247.0 – 641.0	LATL	"
247.0 – 645.0	MSFL	"
545.0 – 615.0	CMPL	"
–		

REMARKS

Poor samples

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	29.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	110.5		
	HAMILTON	170.3		
	MARCELLUS			
	DUNDEE	220.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	255.0		
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	293.5		
	G SHALE	347.3		
	F SHALE	356.0		
	F SALT			
	E CARBONATE	395.0		
	D SALT/EQUIVALENT			
	C SHALE	418.2		
	B MARKER	428.4		
	B EQUIVALENT	429.8		
	B SALT			
	B ANHYDRITE	437.5		
	A2 CARBONATE	442.7		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	460.0		
	A1 CARBONATE	462.4		
	A1 SALT			
	A1 ANHYDRITE	465.5		
	GUELPH	466.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	559.0		
	ROCHESTER	579.0		
	IRONDEQUOIT	590.2		
	REYNALES/FOSSIL HILL	591.5		
	THOROLD	594.3		
	GRIMSBY	596.9		
	CABOT HEAD	607.0		
	MANITOULIN	630.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	636.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. Carter

CTY	Elgin	TWP	Lake Erie	BLK	185	TRAC	G
LOT	-	CON	-				
WELL NAME	Consumers' 13895 Lake Erie 185-G	PERMIT	6769	INIT CLASS	DEV		
OPERATOR	The Consumers' Gas Co. Ltd.	TARGET	CLI	CUR STATUS	G.S.-ABD		

DRILLING DATA

CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	181.0
BOT	-	LOGGER	601.2
ROTRY TOP	28.3	DRILLER	602.0
BOT	602.0	DEEP END	-
DRLG FLD	BRINE	PLUG BK	-

DATES	
PERMIT	85-05-01
SPUD	85-09-15
COMPTD	85-09-17
OFFCNF	85-10-17
WRKOVR	-
ABNDND	85-09-18

COORDINATES		
NORTH	-	m
SOUTH	-	m
EAST	-	m
WEST	-	m
LAT	42-18-36	
LONG	80-53-01	

SAMPLES	
TOP	93
BOT	603
TRAY	8479

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
570.0 – 578.0	0.29	5391
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–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	28.3	HAN	28.3
244	53.6	92.3	CEM	-
178	29.8	232.4	CEM	-

COMPLETION DATA

GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
235.0 – 596.5	LATL	SCH
235.0 – 600.5	MSFL	"
35.0 – 585.5	CNL	"
35.0 – 582.0	GRL	"
35.0 – 591.0	LDT	"
–		
–		

REMARKS

Poor samples.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.3		
	DRIFT / LAKE BOTTOM	28.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	93.0		
	HAMILTON	170.4		
	MARCELLUS			
	DUNDEE	222.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	270.0		
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	294.0		
	G SHALE	338.6		
	F SHALE	346.2		
	F SALT			
	E CARBONATE	384.7		
	D SALT/EQUIVALENT			
	C SHALE	407.9		
	B MARKER	417.0		
	B EQUIVALENT	422.7		
	B SALT			
	B ANHYDRITE	430.3		
	A2 CARBONATE	435.8		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	448.5		
	A1 CARBONATE	449.9		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	453.7		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	527.8		
	ROCHESTER	555.8		
	IRONDEQUOIT	568.4		
	REYNALES/FOSSIL HILL	569.4		
	THOROLD	571.9		
	GRIMSBY	573.5		
	CABOT HEAD	584.0		
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY	Elgin	TWP	Lake Erie	BLK	186	TRAC	G
LOT		CON					
WELL NAME	Consumers' 13894 Lake Erie 186-G	PERMIT	6768	INIT CLASS	DEV		
OPERATOR	The Consumers' Gas Co. Ltd.	TARGET	CLI	CUR STATUS	CS-ABD		

DRILLING DATA

CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	181.2
BOT		LOGGER	626.2
ROTRY TOP	28.7	DRILLER	627.0
BOT	627.0	DEEP END	
DRLG FLD	Brine	PLUG BK	

DATES	
PERMIT	1985-05-01
SPUD	1985-06-14
COMPTD	1985-06-16
OFFCNF	1985-07-10
WRKOVR	
ABNDND	

COORDINATES		
NORTH		m
SOUTH		m
EAST		m
WEST		m
LAT	42-18-01	
LONG	80-48-30	

SAMPLES	
TOP	93
BOT	624
TRAY	1458

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
570.0 – 585.0	1.158	2167
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–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	28.7	HAN	28.7
244	53.6	92.3	CEM	
178	29.8	251.8	CEM	

COMPLETION DATA

GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
28.0 – 607.0	GRL	Schlumberger
28.0 – 611.0	CNL	"
250.0 – 616.0	LDT	"
264.0 – 622.0	LATL	"
264.0 – 625.5	MSFL	"
–		
–		

REMARKS

Very finely pulverised samples.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.5		
	DRIFT / LAKE BOTTOM	28.7		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	85.0		
	HAMILTON	174.8		
	MARCELLUS	214.5		
	DUNDEE	230.5		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	270.0		
	SYLVANIA			
	BOIS BLANC	300.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	309.0		
	G SHALE	345.0		
	F SHALE	352.7		
	F SALT			
	E CARBONATE	390.2		
	D SALT/EQUIVALENT			
	C SHALE	412.4		
	B MARKER	421.5		
	B EQUIVALENT	428.0		
	B SALT			
	B ANHYDRITE	435.3		
	A2 CARBONATE	441.0		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	453.2		
	A1 CARBONATE	454.6		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	45		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	528.2		
	ROCHESTER	555.7		
	IRONDEQUOIT	568.3		
	REYNALES/FOSSIL HILL	570.2		
	THOROLD	572.8		
	GRIMSBY	575.3		
	CABOT HEAD	585.0		
	MANITOULIN	605.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	615.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY Elgin	TWP Lake Erie	BLK 187	TRAC E	LOT -	CON -
WELL NAME Consumers' 13878 Lake Erie 187-E		PERMIT 6754		INIT CLASS DEV	
OPERATOR The Consumers' Gas Co. Ltd.		TARGET CLI		CUR STATUS G.S.-ABD	

DRILLING DATA

CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	181.0
BOT	-	LOGGER	609.7
ROTRY TOP	28.0	DRILLER	610.0
BOT	610.0	DEEP END	-
DRLG FLD	BRINE	PLUG BK	-

DATES

PERMIT	85-05-01
SPUD	85-09-22
COMPTD	85-09-25
OFFCNF	85-10-25
WRKOVR	-
ABNDND	85-10-25

COORDINATES

NORTH	- m
SOUTH	- m
EAST	- m
WEST	- m
LAT	42-19-25.4
LONG	80-44-19.5

SAMPLES

TOP	97
BOT	609
TRAY	7149

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
185.0 - -	-	-
-		
-		
-		
-		
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	28.0	HAN	28.0
244	53.6	97.0	CEM	-
178	29.8	251.9	CEM	-

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
-		
-		
-		
-		
-		
-		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 - 590.0	GRL	SCH
35.0 - 594.0	CNL	"
252.0 - 599.0	LDT	"
258.0 - 605.0	LATL	"
258.0 - 609.0	MSFL	"
-		

REMARKS

Poor samples.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
-		
-		
-		
-		
-		
-		

CORING RECORD

INTERVAL	LOCATION	NO	mm
-			
-			
-			
-			
-			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.3		
	DRIFT / LAKE BOTTOM	28.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	89.0		
	HAMILTON	163.2		
	MARCELLUS			
	DUNDEE	216.1		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	253.0		
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	285.0		
	G SHALE	333.7		
	F SHALE	339.3		
	F SALT			
	E CARBONATE	376.9		
	D SALT/EQUIVALENT			
	C SHALE	399.2		
	B MARKER	408.0		
	B EQUIVALENT	413.5		
	B SALT			
	B ANHYDRITE	421.3		
	A2 CARBONATE	427.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	439.1		
	A1 CARBONATE	440.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	442.7		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	514.3		
	ROCHESTER	538.3		
	IRONDEQUOIT	551.3		
	REYNALES/FOSSIL HILL	552.0		
	THOROLD			
	GRIMSBY	555.8		
	CABOT HEAD	569.7		
	MANITOULIN	590.0		
	WHIRLPOOL	598.0		
ORDOVICIAN	QUEENSTON	599.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY Kent	TWP Lake Erie	BLK 220	TRAC P	LOT -	CON -
WELL NAME Consumers' 13900 Lake Erie 220 P		PERMIT 6774		INIT CLASS DEV	
OPERATOR The Consumers' Gas Co. Ltd.		TARGET CLI		CUR STATUS GP	

DRILLING DATA

CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP	-	KB ELEV	180.9
BOT	-	LOGGER	701.4
ROTRY TOP	30.4	DRILLER	701.8
BOT	701.8	DEEP END	-
DRLG FLD	BRINE	PLUG BK	-

DATES

PERMIT	85-05-01
SPUD	85-09-04
COMPTD	85-09-06
OFFCNF	85-10-06
WRKOVR	
ABNDND	

COORDINATES

NORTH	- m
SOUTH	- m
EAST	- m
WEST	- m
LAT	42-11-12
LONG	81-24-40

SAMPLES

TOP	84
BOT	699
TRAY	8312

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
640.0 - 655.0	2.255	6397
-		
-		
-		
-		
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	30.4	HAN	30.4
244	53.6	84.8	CEM	0
178	29.8	236.4	CEM	0
114	14.4	696.6	CEM	0
60	7.0	644.1	HAN	0

COMPLETION DATA

GAS	2.255 10³m³/d
OIL	- m³/d
SIP	6397 kPa
FORM	Grimsby
INTRVL	647.3 - 649.7 m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
-		
-		
-		
-		
-		
-		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 - 682.0	GRL	SCH
35.0 - 685.5	CNL	"
236.0 - 691.0	LDT	"
240.0 - 697.0	LATL	"
240.0 - 701.0	MSFL	"
-		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
-		
-		
-		
-		
-		
-		

CORING RECORD

INTERVAL	LOCATION	NO	mm
-			
-			
-			
-			
-			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.2		
	DRIFT / LAKE BOTTOM	30.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	84.0		
	HAMILTON	155.0		
	MARCELLUS			
	DUNDEE	232.6		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	276.0		
	SYLVANIA			
	BOIS BLANC	321.0		
	SPRINGVALE			
	ORISKANY	336.0		
SILURIAN	BASS ISLANDS	345.0		
	G SHALE	370.8		
	F SHALE	377.8		
	F SALT			
	E CARBONATE	414.2		
	D SALT/EQUIVALENT			
	C SHALE	439.1		
	B MARKER	468.0		
	B EQUIVALENT	474.2		
	B SALT			
	B ANHYDRITE	482.3		
	A2 CARBONATE	488.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	502.7		
	A1 CARBONATE	504.4		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	513.9		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	617.0		
	ROCHESTER	626.4		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	638.7		
	THOROLD	640.6		
	GRIMSBY	642.5		
	CABOT HEAD	653.7		
	MANITOULIN	681.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	687.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY	Kent	TWP	Lake Erie	BLK	239	TRAC	C	LOT	-
CON	-								
WELL NAME	Diamond Shamrock Lake Erie 239-C	PERMIT	6816	INIT CLASS	NPW				
OPERATOR	Diamond Shamrock Exploration of Canada Ltd.	TARGET	CAM	CUR STATUS	DH-ABD				

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Underwater Gas Developers Ltd.			PERMIT	85-06-13	NORTH	-	m	TOP	66
RIG TYPE	ROT	DEPTHS		SPUD	85-06-29	SOUTH	-	m	BOT	1350
CABLE TOP	-	KB ELEV	180.1	COMPTD	85-07-09	EAST	-	m	TRAY	9067- 68
BOT	-	LOGGER	1348.7	OFFCNF	86-07-09	WEST	-	m		
ROTRY TOP	26.5	DRILLER	1350.0	WRKOVR	-	LAT	42-09-57			
BOT	1350.0	DEEP END	-	ABNDND	85-07-09	LONG	81-52-05			
DRLG FLD	BRINE	PLUG BK	26.0							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	81.2	66.4	CEM	0
244.5	53.6	305.4	CEM	0
177.8	29.8	1009.2	CEM	0

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
66.3 – 1348.0	GRL	SCH
304.1 – 1343.0	CNL	"
304.1 – 1348.0	LDT	"
306.0 – 1344.0	LATL	"
306.0 – 1348.0	MSFL	"
66.3 – 1348.0	SONL	"
460.0 – 635.0	CBLK	"

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	26.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	66.0		
	HAMILTON	95.8		
	MARCELLUS			
	DUNDEE	156.2		
	COLUMBUS	207.0		
	LUCAS	210.0		
	AMHERSTBURG	216.0		
	SYLVANIA			
	BOIS BLANC	279.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	310.0		
	G SHALE	350.7		
	F SHALE	359.0		
	F SALT			
	E CARBONATE	399.0		
	D SALT/EQUIVALENT			
	C SHALE	425.1		
	B MARKER	465.7		
	B EQUIVALENT	472.5		
	B SALT	481.1		
	B ANHYDRITE	481.1		
	A2 CARBONATE	486.7		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	505.1		
	A1 CARBONATE	507.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	512.3		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON	603.0		
	DECEW			
	ROCHESTER	623.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	635.2		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	639.8		
	MANITOULIN	677.4		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	686.7		
	BLUE MOUNTAIN - GEORG BAY	806.3		
	COLLINGWOOD			
	COBOURG	1000.3		
	VERULAM	1040.7		
	KIRKFIELD	1061.5		
	COBOCONK	1115.7		
	GULL RIVER	1145.7		
	SHADOW LAKE	1255.9		
	CAMBRIAN	1258.3		
	PRECAMBRIAN	1328.1		

GEOLOGY BY: T. R. Carter

CTY	Kent	TWP	Lake Erie	BLK	240	TRAC	V	LOT	-
CON	-								
WELL NAME	Diamond Shamrock Lake Erie 240-V	PERMIT	6815	INIT CLASS	NPW				
OPERATOR	Diamond Shamrock Exploration of Canada Ltd.	TARGET	CAM	CUR STATUS	GS-ABD				

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Underwater Gas Developers			PERMIT	85-06-13	NORTH	-	m	TOP	78
RIG TYPE	ROT	DEPTHS		SPUD	85-07-09	SOUTH	-	m	BOT	1436
CABLE TOP	-	KB ELEV	180.1	COMPTD	85-07-20	EAST	-	m	TRAY	9069- 70-71
BOT	-	LOGGER	1433.9	OFFCNF	86-07-20	WEST	-	m		
ROTRY TOP	30.8	DRILLER	1436.0	WRKOVR	-	LAT	42-05-25			
BOT	1436.0	DEEP END	-	ABNDND	85-07-20	LONG	81-46-47			
DRLG FLD	BRINE	PLUG BK	31.0							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
174 – –	–	–
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	81.2	77.9	CEM	0
244.5	53.6	315.8	CEM	0
177.8	29.8	732.7	CEM	0

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
0 – 1415.0	GRL	SCH
244.0 – 1419.0	CNL	"
316.0 – 1424.0	LDT	"
319.0 – 1430.0	LATL	"
319.0 – 1432.0	MSFL	"
34.0 – 1430.0	SONL	"
322.0 – 730.0	DIPM	"

REMARKS

Poor samples in lower part of hole.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.4		
	DRIFT / LAKE BOTTOM	30.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	83.0		
	HAMILTON	112.0		
	MARCELLUS	159.0		
	DUNDEE	176.0		
	COLUMBUS	241.0		
	LUCAS			
	AMHERSTBURG	243.0		
	SYLVANIA			
	BOIS BLANC	300.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	339.0		
	G SHALE	385.5		
	F SHALE	394.1		
	F SALT			
	E CARBONATE	435.6		
	D SALT/EQUIVALENT			
	C SHALE	461.0		
	B MARKER	475.2		
	B EQUIVALENT	480.3		
	B SALT	487.3		
	B ANHYDRITE	526.3		
	A2 CARBONATE	528.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	544.5		
	A1 CARBONATE	547.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	552.1		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON	624.0		
	DECEW			
	ROCHESTER	661.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	672.0		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	675.2		
	MANITOULIN	715.1		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	721.3		
	BLUE MOUNTAIN - GEORG BAY	844.5		
	COLLINGWOOD			
	COBOURG	1056.0		
	VERULAM	1071.2		
	KIRKFIELD	1102.3		
	COBOCONK	1164.5		
	GULL RIVER	1193.7		
	SHADOW LAKE	1306.5		
	CAMBRIAN	1308.4		
	PRECAMBRIAN	1405.0		

GEOLOGY BY: T. R. Carter

CTY	Kent	TWP	Lake Erie	BLK 243	TRAC M	LOT	CON
WELL NAME	Consumers' 13901 Lake Erie 243-M			PERMIT	6775	INIT CLASS	NPW
OPERATOR	The Consumers' Gas Co. Ltd.			TARGET	CLI	CUR STATUS	DH- ABD

DRILLING DATA			
CONTRACTOR	Underwater Gas Developers Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	181.3
BOT		LOGGER	740.3
ROTRY TOP	31.5	DRILLER	741.0
BOT	741.0	DEEP END	
DRLG FLD	Brine	PLUG BK	

DATES		COORDINATES		SAMPLES	
PERMIT	1985-05-01	NORTH	m	TOP	87
SPUD	1985-06-25	SOUTH	m	BOT	741
COMPTD	1985-06-28	EAST	m	TRAY	1208
OFFCNF	1986-06-28	WEST	m		
WRKOVR		LAT	42-07-10		
ABNDND	1985-06-29	LONG	81-32-08		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	75.9	31.5	HAN	31.5
244	53.6	85.7	CEM	
178	29.8	245.7	CEM	

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
32.0 – 722.0	GRL	Schlumberger
32.0 – 724.0	CNL	"
245.0 – 730.0	LDT	"
250.0 – 735.5	LATL	"
250.0 – 739.0	MSFL	"
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REMARKS

Anomalous thickness of C-Shale.

Samples are fine powder.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	6.6		
	DRIFT / LAKE BOTTOM	31.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	81.5		
	HAMILTON	140.4		
	MARCELLUS			
	DUNDEE	213.4		
	COLUMBUS			
	LUCAS	260.0		
	AMHERSTBURG	273.0		
	SYLVANIA			
	BOIS BLANC	324.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	351.0		
	G SHALE	395.2		
	F SHALE	403.0		
	F SALT			
	E CARBONATE	442.0		
	D SALT/EQUIVALENT			
	C SHALE	468.0		
	B MARKER	494.8		
	B EQUIVALENT	500.1		
	B SALT			
	B ANHYDRITE	510.3		
	A2 CARBONATE	515.8		
	A2 SALT	528.0		
SILURIAN	A2 ANHYDRITE	528.8		
	A1 CARBONATE	531.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	535.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	663.2		
	ROCHESTER	667.6		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	681.0		
	THOROLD			
	GRIMSBY	684.0		
	CABOT HEAD	698.5		
	MANITOULIN	722.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	732.0		
	BLUE MOUNTAIN GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY	Lambton	TWP	Brooke	BLK	TRAC 3	LOT 2	CON XII
WELL NAME	Shawnee Talcorp Brooke 3-2-XII			PERMIT	6660	INIT CLASS	NPW
OPERATOR	Shawnee Petroleums Limited			TARGET	SAL	CUR STATUS	OS- ABD

DRILLING DATA			
CONTRACTOR	Charles Shaw Drilling Ltd.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.2	KB ELEV	212.4
BOT	636.0	LOGGER	636.2
ROTRY TOP		DRILLER	636.0
BOT		DEEP END	
DRLG FLD	Oil & Water	PLUG BK	

DATES		COORDINATES		SAMPLES	
PERMIT	1984-12-03	NORTH	m	TOP	19.0
SPUD	1985-01-30	SOUTH 515.0	m	BOT	636.0
COMPTD	1985-03-08	EAST	m	TRAY	9989- 9990
OFFCNF	1986-03-08	WEST 457.2	m		
WRKOVR		LAT	42-53-57		
ABNDND	1985-06-24	LONG	81-59-46		

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.2	19.6	SHO	
219	35.7	130.7	SHO	
178	34.2	371.5	CEM	

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
631.5 – 634.2	.318	
635.2 – 636.2	Show	
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 634.0	GRNL	Computalog
530.0 – 636.0	DENL	"
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
19.0 –		FRE
165.0 –	45.0	SUL
635.2 – 636.2		SAL
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–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	19.7		
	HAMILTON	48.4		
	MARCELLUS			
	DUNDEE	129.2		
	COLUMBUS			
	LUCAS	161.0		
	AMHERSTBURG	231.0		
	SYLVANIA			
	BOIS BLANC	262.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	308.0		
	G SHALE	351.4		
	F SHALE	357.7		
	F SALT			
	E CARBONATE	384.0		
	D SALT/EQUIVALENT	423.6		
	C SHALE	433.5		
	B MARKER	451.2		
	B EQUIVALENT			
	B SALT	462.4		
	B ANHYDRITE			
	A2 CARBONATE	539.0		
	A2 SALT	582.0		
SILURIAN	A2 ANHYDRITE	595.0		
	A1 CARBONATE	596.5		
	A1 SALT			
	A1 ANHYDRITE	630.7		
	GUELPH	631.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY	Lambton	TWP	Brooke	BLK	
TRAC	3	LOT	2	CON	XII
WELL NAME	Shawnee Tal #2 Brooke 3-2-XII	PERMIT	6834	INIT CLASS	NPW
OPERATOR	Shawnee Petroleums Limited	TARGET	SAL	CUR STATUS	OS ABD

DRILLING DATA			
CONTRACTOR	Charles Shaw Drilling Ltd.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.2	KB ELEV	
BOT	647.0	LOGGER	
ROTRY TOP		DRILLER	647.0
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES	
PERMIT	1985-07-02
SPUD	1985-06-27
COMPTD	1985-07-30
OFFCNF	1986-07-30
WRKOVR	
ABNDND	1985-08-01

COORDINATES		
NORTH		m
SOUTH	460.0	m
EAST		m
WEST	399.0	m
LAT	42-53-59	
LONG	81-59-43	

SAMPLES	
TOP	19.0
BOT	647.0
TRAY	9074 9075

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.2	20.4	SHO	20.4
219	35.7	133.0	SHO	133.0
178	34.2	355.2	CEM	268.7

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
635.0 – 639.0	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
19.0 –		FRE
165.0 –	75.0	SUL
–		
–		
–		
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
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–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	19.0		
	HAMILTON	50.0		
	MARCELLUS			
	DUNDEE	129.0		
	COLUMBUS			
	LUCAS	159.0		
	AMHERSTBURG	228.0		
	SYLVANIA			
	BOIS BLANC	263.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	306.9		
	G SHALE	352.1		
	F SHALE	358.5		
	F SALT			
	E CARBONATE	388.6		
	D SALT/EQUIVALENT	425.0		
	C SHALE	436.0		
	B MARKER			
	B EQUIVALENT			
	B SALT	461.0		
	B ANHYDRITE			
	A2 CARBONATE	541.2		
	A2 SALT	582.1		
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	597.0		
	A1 SALT			
	A1 ANHYDRITE	633.3		
	GUELPH	635.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY	Lambton	TWP	Brooke	BLK	
TRAC		LOT	10	CON	IX
WELL NAME	D & L Oil #2 Brooke 3-10-IX	PERMIT	6872	INIT CLASS	NPW
OPERATOR	D & L Oil Company Ltd.	TARGET	SAL	CUR STATUS	DH- ABD

DRILLING DATA			
CONTRACTOR	Charles Shaw Drilling Ltd.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	12.0	KB ELEV	216.1
BOT	605.0	LOGGER	
ROTRY TOP		DRILLER	605.0
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES	
PERMIT	1985-08-23
SPUD	1985-08-22
COMPTD	1985-09-25
OFFCNF	1986-09-25
WRKOVR	
ABNDND	1986-09-28

COORDINATES		
NORTH		m
SOUTH	330.0	m
EAST	272.1	m
WEST		m
LAT	42-51-51	
LONG	81-56-03	

SAMPLES	
TOP	15
BOT	605
TRAY	1677

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.3	14.9	SHO	14.9
219	35.7	119.5	SHO	119.5
178	34.2	327.5	CEM	248.5

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

REMARKS

Good Samples

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
150 –	75	SUL.
605 –	545	SAL.
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	15.0		
	HAMILTON	40.5		
	MARCELLUS			
	DUNDEE	117.0		
	COLUMBUS			
	LUCAS	154.0		
	AMHERSTBURG	162.0		
	SYLVANIA			
	BOIS BLANC	265.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	277.5		
	G SHALE	309.0		
	F SHALE	318.0		
	F SALT			
	E CARBONATE	367.0		
	D SALT/EQUIVALENT	395.0		
	C SHALE	398.0		
	B MARKER	415.0		
	B EQUIVALENT			
	B SALT	424.0		
	B ANHYDRITE	498.0		
	A2 CARBONATE	500.0		
	A2 SALT	543.0		
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	553.0		
	A1 SALT			
	A1 ANHYDRITE	586.3		
	GUELPH	589.3		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY	Lambton	TWP	Brooke	BLK	-	TRAC	4	LOT	18	CON	II
WELL NAME	Ram #85 Brooke 4-18-II			PERMIT	6939			INIT CLASS	NPW		
OPERATOR	Ram Petroleums Limited			TARGET	ORD			CUR STATUS	DH-ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Corunna Drilling Limited			PERMIT	85-11-25	NORTH	-	m	TOP	56.0
RIG TYPE	ROT	DEPTHS		SPUD	85-11-27	SOUTH	590.0	m	BOT	1176.0
CABLE TOP	-	KB ELEV	213.7	COMPTD	85-12-11	EAST	-	m	TRAY	9117 -
BOT	-	LOGGER	1177.0	OFFCNF	86-12-11	WEST	106.7	m		9118
ROTRY TOP	3.7	DRILLER	1177.0	WRKOVR	-	LAT	42-46-35			
BOT	1177.0	DEEP END	-	ABNDND	86-02-13	LONG	81-52-17			
DRLG FLD	KCl Water	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
299	62.5	50.5	CEM	0
220	35.7	456.6	CEM	300.0

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
452.0 – 1177.0	DLLM	SCH
30.0 – 1176.0	SONL	"
447.0 – 1167.5	CNFD	"
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.7		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	42.2		
	MARCELLUS			
	DUNDEE	126.0		
	COLUMBUS			
	LUCAS	195.0		
	AMHERSTBURG	212.3		
	SYLVANIA			
	BOIS BLANC	248.6		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	340.4		
	G SHALE	378.3		
	F SHALE	385.1		
	F SALT			
	E CARBONATE	416.5		
	D SALT/EQUIVALENT	450.0		
	C SHALE	453.4		
	B MARKER	464.2		
	B EQUIVALENT	475.7		
	B SALT			
	B ANHYDRITE	478.3		
	A2 CARBONATE	480.8		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	515.8		
	A1 CARBONATE	518.5		
	A1 SALT			
	A1 ANHYDRITE	555.2		
	GUELPH	562.0		
	ERAMOSA			
	GOAT ISLAND	572.2		
	GASPORT/WIARTON	592.4		
	DECEW			
	ROCHESTER	599.8		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	614.2		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	616.0		
	MANITOULIN	645.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	648.7		
	BLUE MOUNTAIN - GEORG BAY	755.3		
	COLLINGWOOD			
	COBOURG	880.0		
	VERULAM	932.2		
	KIRKFIELD	970.4		
	COBOCONK	1030.0		
	GULL RIVER	1059.5		
	SHADOW LAKE	1161.1		
	CAMBRIAN	1162.0		
	PRECAMBRIAN	1165.0		

GEOLOGY BY Debra K. Parker

CTY	Lambton	TWP	Dawn	BLK		TRAC	3	LOT	24	CON	XIII
WELL NAME	Smith Dawn 3-24-XIII			PERMIT	6665			INIT CLASS	NPW		
OPERATOR	Ron Smith Well Drilling Ltd.			TARGET	SAL			CUR STATUS	CS- ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Ron Smith Well Drilling Ltd.			PERMIT	1984-12-18	NORTH		m	TOP	17.0
RIG TYPE	CAB	DEPTHS		SPUD	1985-01-11	SOUTH	107.0	m	BOT	560.8
CABLE TOP	1.2	KB ELEV	201.8	COMPTD	1985-04-15	EAST		m	TRAY	9027
BOT	560.8	LOGGER		OFFCNF	1986-04-15	WEST	563.0	m		9028
ROTRY TOP		DRILLER	560.8	WRKOVR		LAT	42-42-07			
BOT		DEEP END		ABNDND	1985-04-22	LONG	82-01-52			
DRLG FLD		PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
468.2 –	.623	4137
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		17.3	SHO	17.3
219		128.3	SHO	128.3
178		366.1	CEM	307.8

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		
–		

REMARKS

Columbus facies present
at 146.0-155.0

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
16.5 –	6.1	FRE
150.9 –	44.2	SUL
532.8 –	305.0	SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	16.6		
	HAMILTON	43.2		
	MARCELLUS			
	DUNDEE	119.0		
	COLUMBUS	146.0		
	LUCAS	142.8		
	AMHERSTBURG	222.0		
	SYLVANIA			
	BOIS BLANC	246.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	318.8		
	G SHALE	351.0		
	F SHALE	361.0		
	F SALT			
	E CARBONATE	396.3		
	D SALT/EQUIVALENT	427.2		
	C SHALE	433.1		
	B MARKER	448.0		
	B EQUIVALENT	456.0		
	B SALT	463.0		
	B ANHYDRITE			
	A2 CARBONATE	467.2		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	506.1		
	A1 CARBONATE	508.0		
	A1 SALT			
	A1 ANHYDRITE	543.0		
	GUELPH	546.0		
	ERAMOSA			
	GOAT ISLAND	557.0		
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY:	Lambton	TWP:	Dawn	BLK:		TRAC:	1	LOT: 28	CON: II
WELL NAME:	Forbes #20 Dawn 1-28-11			PERMIT:	6835			INIT CLASS:	DEV
OPERATOR:	Forbes Resources Inc.			TARGET:	SAL			CUR STATUS:	OP

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Rose, Charles			PERMIT	1985-07-03	NORTH		m	TOP:	595.9
RIG TYPE:	CAB	DEPTHS		SPUD	1985-07-09	SOUTH	413.0	m	BOT:	598.9
CABLE TOP:	1.0	KB ELEV:	193.1	COMPTD	1985-07-12	EAST		m	TRAY:	7997
BOT:	604.0	LOGGER:		OFFCNF	1986-07-12	WEST	108.0	m		
ROTRY TOP:		DRILLER:	604.0	WRKOVR		LAT	42-43-34			
BOT:		DEEP END:		ABNDND		LONG	82-12-34			
DRLG FLD:		PLUG BK:								

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS	10³m³/d
–								OIL	m³/d
–								SIP	kPa
–								FORM:	
–								INTRVL	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD			PERF ☐ OPEN HOLE ☐
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	REMARKS
–			–			Deepening
–			–			from 595.8 of
–			–			producing well
–			–			
–			–			

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
–			–			
–			–			
–			–			
–			–			
–			–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY:	Lambton	TWP:	Dawn	BLK:		TRAC:	5	LOT: 28	CON: II
WELL NAME:	Forbes #35 Dawn 5-28-II			PERMIT:	6718			INIT CLASS:	DEV
OPERATOR:	Forbes Resources Ltd.			TARGET:	SAL			CUR STATUS:	OS-ABD

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	James Newport Drilling Limited			PERMIT	1985-03-15	NORTH	108.2	m	TOP:	21.0
RIG TYPE:	CAB	DEPTHS		SPUD	1985-03-13	SOUTH		m	BOT:	611.0
CABLE TOP:	1.2	KB ELEV:	192.6	COMPTD	1985-04-10	EAST	582.3	m	TRAY:	1087
BOT:	611.0	LOGGER:		OFFCNF	1985-05-10	WEST		m		
ROTRY TOP:		DRILLER:	611.0	WRKOVR		LAT	42-43-32			
BOT:		DEEP END:		ABNDND	1985-04-13	LONG	82-13-05			
DRLG FLD:		PLUG BK:								

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA	
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS	10³m³/d
–			273		22.1	SHO	22.1	OIL	m³/d
–			219		134.0	SHO	134.0	SIP	kPa
–			178		329.8	CEM	249.2	FORM	
–								INTRVL	m
–									m
–									m

INITIAL OIL RECORD			LOGGING RECORD			PERF ☐ OPEN HOLE ☐
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	REMARKS
600.0– 604.0	0.1		–			
–			–			
–			–			
–			–			
–			–			

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	mm
20.0 –		FRE	–			
165.0– 168.0	63.0	SUL	–			
–			–			
–			–			
–			–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	21.0		
	HAMILTON	60.0		
	MARCELLUS			
	DUNDEE	129.3		
	COLUMBUS			
	LUCAS	152.0		
	AMHERSTBURG	223.0		
	SYLVANIA			
	BOIS BLANC	248.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	280.2		
	G SHALE	327.1		
	F SHALE	333.0		
	F SALT			
	E CARBONATE	358.0		
	D SALT/EQUIVALENT			
	C SHALE	406.3		
	B MARKER	416.2		
	B EQUIVALENT	427.0		
	B SALT	436.0		
	B ANHYDRITE			
	A2 CARBONATE	498.2		
	A2 SALT	542.0		

SILURIAN	A2 ANHYDRITE	557.0		
	A1 CARBONATE	560.0		
	A1 SALT			
	A1 ANHYDRITE	596.0		
	GUELPH	600.4		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY: Lambton	TWP: Dawn	BLK:	TRAC: 6	LOT: 28	CON: II
WELL NAME: Union Dawn 6-28-11			PERMIT: 6806	INIT CLASS: DEV	
OPERATOR: Forbes Resources Ltd.			TARGET: SAL	CUR STATUS: OP	

DRILLING DATA				DATES		COORDINATES			SAMPLES
CONTRACTOR	Rose, Charles			PERMIT	1985-06-13	NORTH		m	TOP:
RIG TYPE	CAB	DEPTHS		SPUD	1985-05-29	SOUTH	106.7	m	BOT:
CABLE TOP	0.9	KB ELEV	1925	COMPTD	1985-06-24	EAST	442.0	m	TRAY:
BOT	603.5	LOGGER		OFFCNF	1986-06-24	WEST		m	
ROTRY TOP		DRILLER	603.5	WRKOVR		LAT	42-43-45		
BOT		DEEP END		ABNDND		LONG	82-13-12		
DRLG FLD		PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
597.7 – 598.6	Show	
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
203.2		139.9	SHO	
114.3		603.5	CEM	

COMPLETION DATA

GAS:	10 ³m³/d
OIL:	m³/d
SIP:	kPa
FORM: Guelph	
INTRVL:	m
	m
	m
PERF ☒	OPEN HOLE ☐

REMARKS

Reopening of well.
No new section
drilled.

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
595.6 – 600.8	Show	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
19.8 –		FRE
165.5 –		SUL
600.8 –		SAL
602.6 –		SAL
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY: Lambton	TWP: Dawn	BLK:	TRAC: 5	LOT: 29	CON: II
WELL NAME: Forbes #36 Dawn 5-29-II			PERMIT: 6733	INIT CLASS: DEV	
OPERATOR: Forbes Resources Inc.			TARGET: SAL	CUR STATUS: OP-GS	

DRILLING DATA				DATES		COORDINATES			SAMPLES
CONTRACTOR	James Newport Drilling Limited			PERMIT	1985-04-19	NORTH	110.0	m	TOP: 21.0
RIG TYPE	CAB	DEPTHS		SPUD	1985-04-18	SOUTH		m	BOT: 602.0
CABLE TOP	1.3	KB ELEV	193.5	COMPTD	1985-05-17	EAST	560.6	m	TRAY: 1129
BOT	605.0	LOGGER	603.5	OFFCNF	1985-06-17	WEST		m	
ROTRY TOP		DRILLER	605.0	WRKOVR		LAT	42-43-52		
BOT		DEEP END		ABNDND		LONG	82-13-05		
DRLG FLD	Water	PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
562.0 – 565.0	Show	
584.0 – 587.0	9.91	4999
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.3	23.0	SHO	
219	35.7	129.7	SHO	
178	29.8	341.2	CEM	
127		604.0	CEM	

COMPLETION DATA

GAS:	10 ³m³/d
OIL:	m³/d
SIP:	kPa
FORM:	
INTRVL:	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
596.0 – 605.0	1.0	
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
385.8 – 600.5	GRNL	Computalog
552.4 – 602.0	DENL	"
–		
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
21.0 – 22.0		FRE
136.0 – 139.0	47.0	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	22.0		
	HAMILTON	57.0		
	MARCELLUS			
	DUNDEE	127.0		
	COLUMBUS			
	LUCAS	152.0		
	AMHERSTBURG	225.0		
	SYLVANIA			
	BOIS BLANC	249.2		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	289.0		
	G SHALE	336.0		
	F SHALE	341.0		
	F SALT			
	E CARBONATE	371.0		
	D SALT/EQUIVALENT	411.0		
	C SHALE	412.0		
	B MARKER	423.3		
	B EQUIVALENT			
	B SALT	430.2		
	B ANHYDRITE			
	A2 CARBONATE	502.5		
	A2 SALT	544.0		

SILURIAN	A2 ANHYDRITE	557.0		
	A1 CARBONATE	558.3		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	565.0		
	ERAMOSA			
	GOAT ISLAND	599.1		
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY: Lambton	TWP: Dawn	BLK:	TRAC: 4	LOT: 30	CON: III
WELL NAME: P-R & Associates Dawn #2 4-30-III			PERMIT: 6714	INIT CLASS: NPW	
OPERATOR: Proto-Resources and Associates			TARGET: SAL	CUR STATUS: OP-CS	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Newport, Lorne T.			PERMIT	1985-03-08	NORTH	125.1	m	TOP	18.0
RIG TYPE:	CAB	DEPTHS		SPUD	1985-03-14	SOUTH		m	BOT	603.2
CABLE TOP:	0.6	KB ELEV:	195.0	COMPTD	1985-06-13	EAST		m	TRAY	1147
BOT:	603.5	LOGGER:	603.8	OFFCNF	1986-06-13	WEST	552.2	m		
ROTRY TOP:		DRILLER:	603.5	WRKOVR		LAT	42-44-11			
BOT:		DEEP END:		ABNOND		LONG	82-11-53			
DRLG FLD:		PLUG BK:								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
586.7 – 588.9	1.5	2000
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	59.4	19.2	SHO	
219	35.7	126.2	SHO	
1/8	34.2	329.8	CEM	
114	14.1	603.2	CEM	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM	Guelph	
INTRVL	591.0-595.3	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

Used 28% HCl in T & S

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
592.5 – 594.4		870.2
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
304.8 – 604.1	GRNL	Computalog
557.8 – 603.5	DENL	"
531.6 – 599.8	CMPL	"
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
16.8 – 18.3	9.1	FRE
129.5 – 131.1	39.6	SUL
603.5 –		SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	18.3		
	HAMILTON	53.2		
	MARCELLUS			
	DUNDEE	119.3		
	COLUMBUS			
	LUCAS	149.0		
	AMHERSTBURG	216.0		
	SYLVANIA			
	BOIS BLANC	240.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	283.0		
	G SHALE	324.9		
	F SHALE	331.3		
	F SALT			
	E CARBONATE	364.8		
	D SALT/EQUIVALENT	400.8		
	C SHALE	404.8		
	B MARKER	416.1		
	B EQUIVALENT			
	B SALT	423.7		
	B ANHYDRITE			
	A2 CARBONATE	497.1		
	A2 SALT	538.9		

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	556.7		
	A1 SALT			
	A1 ANHYDRITE	585.5		
	GUELPH	588.0		
	ERAMOSA			
	GOAT ISLAND	598.9		
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY: Lambton	TWP: DAWN	BLK:	TRAC:	LOT: 32	CON: I
WELL NAME: Union Dawn 256 Dawn 32-I			PERMIT: 6606	INIT CLASS: NCS	
OPERATOR: Union Gas Limited			TARGET: SAL	CUR STATUS:	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	James Newport Drilling Limited			PERMIT	1984-11-16	NORTH	1.8	m	TOP	23.0
RIG TYPE:	CAB	DEPTHS		SPUD	1985-01-07	SOUTH		m	BOT	578.0
CABLE TOP:	1.2	KB ELEV:	192.2	COMPTD	1985-03-05	EAST		m	TRAY	1085
BOT:	579.0	LOGGER:	577.5	OFFCNF	1986-03-05	WEST	111.5	m		
ROTRY TOP:		DRILLER:	579.0	WRKOVR		LAT	42-44-49			
BOT:		DEEP END:		ABNOND		LONG	82-13-35			
DRLG FLD:	Dry	PLUG BK:								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
492.0 –	Show	
512.0 –		3985
–		
–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.5	23.5	SHO	
273	60.3	176.5	SHO	176.5
219	35.7	397.0	CEM	
178	29.8	509.1	CEM	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☒	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 575.8	GRNL	Computalog
509.0 – 576.8	DENL	"
6.8 – 486.2	SONL	"
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
22.0 – 23.0		FRE
216.0 – 219.0		SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	22.5		
	HAMILTON	97.5		
	MARCELLUS			
	DUNDEE	176.5		
	COLUMBUS			
	LUCAS	208.4		
	AMHERSTBURG	283.6		
	SYLVANIA			
	BOIS BLANC	305.4		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	348.5		
	G SHALE	383.0		
	F SHALE	389.3		
	F SALT			
	E CARBONATE	419.6		
	D SALT/EQUIVALENT	452.7		
	C SHALE	453.8		
	B MARKER	469.6		
	B EQUIVALENT	452.7		
	B SALT			
	B ANHYDRITE	483.0		
	A2 CARBONATE	485.6		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	510.1		
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	511.3		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K Parker

CTY Lambton TWP: Dawn BLK: TRAC LOT: 32 CON: I
WELL NAME Union Dawn 255 Dawn 32-I PERMIT 6605 INIT CLASS: NGS
OPERATOR Union Gas Limited TARGET SAL CUR STATUS

DRILLING DATA				DATES		COORDINATES		SAMPLES
CONTRACTOR	James Newport Drilling Ltd.	DEPTHS		PERMIT	1984-11-16	NORTH	137.0 m	TOP 24.0
RIG TYPE	CAB			SPUD	1985-01-11	SOUTH	m	BOT 578.0
CABLE TOP	1.2	KB ELEV	191.9	COMPTD	1985-03-07	EAST	m	TRAY 1079
BOT	579.0	LOGGER	578.5	OFFCNF	1986-03-07	WEST	349.7 m	
ROTRY TOP		DRILLER	579.0	WRKOVR		LAT	42-44-54	
BOT		DEEP END		ABNDND		LONG	82-13-46	
DRLG FLD		PLUG BK						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
483.0 –	Show	
513.0 –		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.5	28.1	SHO	
273	60.3	174.8	SHO	
219	35.7	396.5	CEM	
178	29.8	503.7	CEM	

COMPLETION DATA

GAS 10 ³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 576.2	GRNL	Computalog
504.2 – 578.0	DENL	"
– 488.5	SONL	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
22.0 –		FRE
208.0 –		SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	23.5		
	HAMILTON	98.0		
	MARCELLUS			
	DUNDEE	172.5		
	COLUMBUS			
	LUCAS	205.4		
	AMHERSTBURG	277.0		
	SYLVANIA			
	BOIS BLANC	300.3		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	345.3		
	G SHALE	379.3		
	F SHALE	385.4		
	F SALT			
	E CARBONATE	412.2		
	D SALT/EQUIVALENT	448.4		
	C SHALE	451.1		
	B MARKER	464.6		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	477.7		
	A2 CARBONATE	480.5		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	501.7		
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND	525.0		
	GASPORT/WIARTON	539.5		
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K.Parker

CTY Lambton TWP: Dawn BLK: TRAC LOT 33 CON II
WELL NAME Union Dawn 252 Dawn 33-II PERMIT 6595 INIT CLASS NGS
OPERATOR Union Gas Limited TARGET SAL CUR STATUS

DRILLING DATA				DATES		COORDINATES		SAMPLES
CONTRACTOR	Charles Shaw Drilling Ltd.	DEPTHS		PERMIT	1984-09-13	NORTH	90.6 m	TOP 22.0
RIG TYPE	CAB			SPUD	1985-01-08	SOUTH	m	BOT 578.0
CABLE TOP	1.2	KB ELEV	193.4	COMPTD	1985-02-21	EAST	272.8 m	TRAY 9879
BOT	578.2	LOGGER	578.2	OFFCNF	1986-02-01	WEST	m	
ROTRY TOP		DRILLER	578.2	WRKOVR		LAT	42-45-12	
BOT		DEEP END		ABNDND		LONG	82-13-15	
DRLG FLD	DRY	PLUG BK						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
500.0 –	Show	
527.0 –	Show	3999

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.5	22.6	SHO	
273	60.3	142.8	SHO	142.3
219	35.7	407.8	CEM	
178	29.8	524.1	CEM	

COMPLETION DATA

GAS 10 ³m³/d
OIL m³/d
SIP 3999 kPa
FORM Guelph
INTRVL 527.0-578.2 m
m
m
PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY

LOGGING RECORD

INTERVAL	TYPE	COMPANY
524.0 – 577.4	DENL	Computalog
– 576.0	GRNL	"
3.0 – 394.5	SONL	"

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
20.0 –	20.0	FRE
156.0 –	90.0	SUL

CORING RECORD

INTERVAL	LOCATION	NO	ANAL

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	21.7		
	HAMILTON	59.5		
	MARCELLUS			
	DUNDEE	141.0		
	COLUMBUS			
	LUCAS	174.7		
	AMHERSTBURG	269.1		
	SYLVANIA			
	BOIS BLANC	297.5		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	341.6		
	G SHALE	386.6		
	F SHALE	393.2		
	F SALT			
	E CARBONATE	419.0		
	D SALT/EQUIVALENT	459.5		
	C SHALE	462.0		
	B MARKER	481.2		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	496.0		
	A2 CARBONATE	498.4		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	520.4		
	A1 CARBONATE	—		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	524.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K Parker

CTY	Lambton	TWP	Enniskillen	BLK	
TRAC	4	LOT	3	CON	IV
WELL NAME	Shawnee Talcorp Enniskillen 4-3-IV	PERMIT	6659	INIT CLASS	NPW
OPERATOR	Shawnee Petroleums Ltd.	TARGET	SAL	CUR STATUS	DH-ABD

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Charles Shaw Drilling Ltd.			PERMIT	1984-12-03	NORTH		m	TOP	27.0
RIG TYPE	CAB	DEPTHS		SPUD	1984-11-29	SOUTH	670.6	m	BOT	651.0
CABLE TOP	1.2	KB ELEV	198.8	COMPTD	1985-01-14	EAST		m	TRAY	9877
BOT	651.0	LOGGER	651.0	OFFCNF	1986-01-14	WEST	152.4	m		9898
ROTRY TOP		DRILLER	651.0	WRKOVR		LAT	42-48-16			
BOT		DEEP END		ABNDND	1985-01-16	LONG	82-13-06			
DRLG FLD	DRY	PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.2	26.7	SHO	26.7
219	35.7	132.5	SHO	132.5
178	23.0	359.8	CEM	262.0

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 648.6	GRNL	COM
–		
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INITIAL WATER RECORD

INTERVAL	STAT LEV.	TYPE
169.0 –	60.0	SUL
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
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–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	26.3		
	HAMILTON	50.8		
	MARCELLUS			
	DUNDEE	130.3		
	COLUMBUS			
	LUCAS	158.0		
	AMHERSTBURG	236.0		
	SYLVANIA			
	BOIS BLANC	287.2		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	314.0		
	G SHALE	357.8		
	F SHALE	364.5		
	F SALT			
	E CARBONATE	395.4		
	D SALT/EQUIVALENT	430.0		
	C SHALE	432.0		
	B MARKER	435.6		
	B EQUIVALENT			
	B SALT	455.3		
	B ANHYDRITE			
	A2 CARBONATE	533.7		
	A2 SALT	573.7		
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	598.0		
	A1 SALT			
	A1 ANHYDRITE	636.8		
	GUELPH	641.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY	Lambton	TWP	Enniskillen	BLK	-
TRAC	6	LOT	12	CON	IX
WELL NAME	Ram #83 Enniskillen 6-12-IX	PERMIT	6893	INIT CLASS	NPW
OPERATOR	Ram Petroleums Limited	TARGET	SAL	CUR STATUS	DH-ABD

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Rawlings Drilling Co. Ltd.			PERMIT	85-10-15	NORTH	535.0	m	TOP	20.0
RIG TYPE	CAB	DEPTHS		SPUD	85-10-18	SOUTH	-	m	BOT	701.0
CABLE TOP	1.2	KB ELEV	199.6	COMPTD	85-11-28	EAST	50.0	m	TRAY	9113-
BOT	701.0	LOGGER	700.0	OFFCNF	86-11-28	WEST	-	m		9114
ROTRY TOP	-	DRILLER	701.0	WRKOVR	-	LAT	42-51-46			
BOT	-	DEEP END	-	ABNDND	85-12-04	LONG	82-14-15			
DRLG FLD	BRINE	PLUG BK	-							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
274	60.3	21.2	SHO	21.2
220	35.7	113.7	SHO	113.7
178	29.7	344.0	PAC	334.0

COMPLETION DATA

GAS	$10^3 m^3/d$
OIL	m^3/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
636.1 – 641.3	Trace	-
650.7 – 661.1	Trace	-
667.8 – 670.9	Trace	-
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
84.0 – 699.0	CNFD	SCH
328.0 – 695.8	SONL	"
–		
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–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
117.3 – -	61.0	SUL
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	ANAL
–			
–			
–			
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–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	20.0		
	HAMILTON	26.0		
	MARCELLUS			
	DUNDEE	105.2		
	COLUMBUS			
	LUCAS	135.0		
	AMHERSTBURG	215.0		
	SYLVANIA			
	BOIS BLANC	265.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	284.0		
	G SHALE	335.7		
	F SHALE	341.8		
	F SALT	376.7		
	E CARBONATE	408.5		
	D SALT/EQUIVALENT	436.4		
	C SHALE	449.0		
	B MARKER	467.9		
	B EQUIVALENT			
	B SALT	476.2		
	B ANHYDRITE			
	A2 CARBONATE	554.8		
	A2 SALT	596.7		
SILURIAN	A2 ANHYDRITE	619.2		
	A1 CARBONATE	622.0		
	A1 SALT			
	A1 ANHYDRITE	661.2		
	GUELPH	666.0		
	ERAMOSA			
	GOAT ISLAND	670.0		
	GASPORT/WIARTON	679.0		
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: Debra K. Parker

CTY	Lambton	TWP	Enniskillen	BLK	-	TRAC	3-2	LOT	13	CON	I
WELL NAME	P-R & LEO 85./Enniskillen 13-1			PERMIT	6932	INIT CLASS	NPW				
OPERATOR	P-R & LEO 85			TARGET	DEV	CUR STATUS	OS-ABD				

DRILLING DATA

CONTRACTOR	Newoort, Lorne T.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	0.6	KB ELEV	200.0
BOT	115.5	LOGGER	-
ROTRY TOP	-	DRILLER	115.5
BOT	-	DEEP END	-
DRLG FLD	-	PLUG BK	-

DATES		COORDINATES			SAMPLES	
PERMIT	85-10-15	NORTH	-	m	TOP	22.0
SPUD	85-10-24	SOUTH	329.8	m	BOT	115.5
COMPTD	85-12-12	EAST	65.2	m	TRAY	379
OFFCNF	86-12-12	WEST	-	m		
WRKOVR	-	LAT	42-46-10			
ABNDND	85-12-23	LONG	82-08-57			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
–		
–		
–		
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	29.8	22.9	SHO	22.9
140	22.3	95.4	CEM	29.0

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
97.2 – 97.8	-	-
104.9 – 107.3	-	-
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
22.1 – –	9.14	FRE
23.0 – –	6.10	FRE
95.7 – 96.3	42.7	FRE
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	24.4		
	MARCELLUS			
	DUNDEE	93.8		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY

CTY	Lambton	TWP	Enniskillen	BLK		TRAC	3	LOT	13	CON	XI
WELL NAME	Mid Pet Disposal #1 Enniskillen 3-13-XI			PERMIT	6846	INIT CLASS	BD				
OPERATOR	625138 Ontario Limited			TARGET	DEV	CUR STATUS					

DRILLING DATA

CONTRACTOR	Kenneth S. Girard Drilling		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	0.5	KB ELEV	203.6
BOT	237.1	LOGGER	237.1
ROTRY TOP		DRILLER	237.1
BOT		DEEP END	
DRLG FLD		PLUG BK	233.0

DATES		COORDINATES			SAMPLES	
PERMIT	1985-08-13	NORTH		m	TOP	26.0
SPUD	1985-08-09	SOUTH	481.9	m	BOT	237.1
COMPTD	1985-09-04	EAST	45.9	m	TRAY	124
OFFCNF	1986-09-04	WEST		m		
WRKOVR		LAT	42-53-22			
ABNDND		LONG	82-08-38			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
81.7 – 83.8	Show	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273.1	48.7	26.3	SHO	
219.1	35.72	102.7	SHO	102.7
177.8	29.76	146.18	CEM	
114.3	14.14	154.8	PAC	

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
81.7 – 83.8	Show	
143.9 – 146.3	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 234.3	GRNL	Computalog
103.0 – 236.0	DENL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
81.7 – 83.8		
106.7 –	57.2	
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	27.0		
	MARCELLUS			
	DUNDEE	101.7		
	COLUMBUS			
	LUCAS	136.4		
	AMHERSTBURG	210.2		
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY: Lambton	TWP: Enniskillen	BLK:	TRAC: 5	LOT: 14	CON: VIII
WELL NAME: Forbes #38 Enniskillen 5-14-VIII			PERMIT: 6874	INIT CLASS: NPW	
OPERATOR: Forbes Resources Inc.			TARGET: SAL	CUR STATUS: OS-ABD	

DRILLING DATA		DATES	COORDINATES		SAMPLES
CONTRACTOR: James Newport DrillingLimited		PERMIT: 1985-08-23	NORTH:	m	TOP: 19.0
RIG TYPE: CAB	DEPTHS	SPUD: 1985-09-04	SOUTH: 750.0	m	BOT: 661.0
CABLE TOP: 1.2	KB ELEV: 203.5	COMPTD: 1985-09-30	EAST:	m	TRAY: 9107
BOT: 661.0	LOGGER: 659.4	OFFCNF: 1986-09-30	WEST: 277.7	m	9108
ROTRY TOP:	DRILLER: 661.0	WRKOVR:	LAT: 42-51-01		
BOT:	DEEP END:	ABNDND: 1985-11-01	LONG: 82-08-09		
DRLG FLD:	PLUG BK:				

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273.1		19.6	SHO	
219.1		111.5	SHO	111.5
177.8		339.3	CEM	235.3
139.7		653.7	CEM	430.0

COMPLETION DATA

GAS:	10 ³m³/d
OIL:	m³/d
SIP:	kPa
FORM:	
INTRVL:	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
654.0 – 661.0	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
440.1 – 657.2	GRNL	Computalog
606.0 – 659.1	DENL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
19.0 –		FRE
147.0 –		SUL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK					
	KB / LAKE LEVEL	0			SILURIAN	A2 ANHYDRITE	610.2		
	DRIFT / LAKE BOTTOM	1.2				A1 CARBONATE	611.6		
DEVONIAN	PORT LAMBTON					A1 SALT			
	KETTLE POINT	19.0				A1 ANHYDRITE	651.8		
	HAMILTON	33.0				GUELPH	653.7		
	MARCELLUS					ERAMOSA			
	DUNDEE	109.0				GOAT ISLAND			
	COLUMBUS					GASPORT/WIARTON			
	LUCAS	144.0				DECEW			
	AMHERSTBURG	216.0				ROCHESTER			
	SYLVANIA					IRONDEQUOIT			
	BOIS BLANC	268.0				REYNALES/FOSSIL HILL			
	SPRINGVALE					THOROLD			
	ORISKANY					GRIMSBY			
SILURIAN	BASS ISLANDS	296.4				CABOT HEAD			
	G SHALE	336.4				MANITOULIN			
	F SHALE	343.0				WHIRLPOOL			
	F SALT	386.0			ORDOVICIAN	QUEENSTON			
	E CARBONATE	403.8				BLUE MOUNTAIN - GEORG BAY			
	D SALT/EQUIVALENT	422.0				COLLINGWOOD			
	C SHALE	434.0				COBOURG			
	B MARKER	458.1				VERULAM			
	B EQUIVALENT					KIRKFIELD			
	B SALT	466.2				COBOCONK			
	B ANHYDRITE					GULL RIVER			
	A2 CARBONATE	544.4				SHADOW LAKE			
	A2 SALT	588.7				CAMBRIAN			
						PRECAMBRIAN			

GEOLOGY BY: D.K. Parker

CTY: Lambton	TWP: Enniskillen	BLK:	TRAC: 3	LOT: 17	CON: IX
WELL NAME: Forbes #37 Enniskillen 3-17-IX			PERMIT: 6842	INIT CLASS: NPW	
OPERATOR: Forbes Resources Inc.			TARGET: SAL	CUR STATUS: DH-ABD	

DRILLING DATA		DATES	COORDINATES		SAMPLES
CONTRACTOR: James Newport Drilling Limited		PERMIT: 1985-08-08	NORTH: 899.2	m	TOP: 22.0
RIG TYPE: CAB	DEPTHS	SPUD: 1985-08-09	SOUTH:	m	BOT: 668.0
CABLE TOP: 1.2	KB ELEV: 203.8	COMPTD: 1985-09-09	EAST: 86.0	m	TRAY: 1242
BOT: 668.0	LOGGER:	OFFCNF: 1986-09-09	WEST:	m	
ROTRY TOP:	DRILLER: 668.0	WRKOVR:	LAT: 42-51-55		
BOT:	DEEP END:	ABNDND: 1985-09-12	LONG: 82-07-57		
DRLG FLD:	PLUG BK:				

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273		22.0	SHO	22.0
219		112.3	SHO	112.3
178		343.5	CEM	88.1

COMPLETION DATA

GAS:	10 ³m³/d
OIL:	m³/d
SIP:	kPa
FORM:	
INTRVL:	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
138.0 – 141.0	75.0	SUL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK					
	KB / LAKE LEVEL	0			SILURIAN	A2 ANHYDRITE	611.4		
	DRIFT / LAKE BOTTOM	1.2				A1 CARBONATE	613.0		
DEVONIAN	PORT LAMBTON					A1 SALT			
	KETTLE POINT	21.0				A1 ANHYDRITE	652.4		
	HAMILTON	29.9				GUELPH	658.0		
	MARCELLUS					ERAMOSA			
	DUNDEE	107.1				GOAT ISLAND			
	COLUMBUS					GASPORT/WIARTON			
	LUCAS	149.4				DECEW			
	AMHERSTBURG	217.0				ROCHESTER			
	SYLVANIA					IRONDEQUOIT			
	BOIS BLANC	253.0				REYNALES/FOSSIL HILL			
	SPRINGVALE					THOROLD			
	ORISKANY					GRIMSBY			
SILURIAN	BASS ISLANDS	289.4				CABOT HEAD			
	G SHALE	332.5				MANITOULIN			
	F SHALE	340.0				WHIRLPOOL			
	F SALT	383.0			ORDOVICIAN	QUEENSTON			
	E CARBONATE	399.0				BLUE MOUNTAIN - GEORG BAY			
	D SALT/EQUIVALENT	427.0				COLLINGWOOD			
	C SHALE	434.0				COBOURG			
	B MARKER	449.4				VERULAM			
	B EQUIVALENT					KIRKFIELD			
	B SALT	454.0				COBOCONK			
	B ANHYDRITE					GULL RIVER			
	A2 CARBONATE	545.8				SHADOW LAKE			
	A2 SALT	592.0				CAMBRIAN			
						PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY Lambton	TWP Enniskillen	BLK	TRAC 2-5
LOT 17	CON X		
WELL NAME Jacques #9 Enniskillen 17-X		PERMIT 6618	INIT CLASS DEV
OPERATOR Lambton Area Industries Ltd.		TARGET DEV	CUR STATUS OP

DRILLING DATA			
CONTRACTOR	Lorne T. Newport		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	0.6	KB ELEV	203.8
BOT	143.5	LOGGER	
ROTRY TOP		DRILLER	143.5
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES	
PERMIT	1984-10-16
SPUD	1984-11-26
COMPTD	1985-02-06
OFFCNF	1985-03-06
WRKOVR	
ABNDND	

COORDINATES		
NORTH		m
SOUTH	765.0	m
EAST		m
WEST	214.0	m
LAT	42-52-07	
LONG	82-06-43	

SAMPLES	
TOP	20.0
BOT	144.2
TRAY	251

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
203		18.6	SHO	
178		114.3	CEM	

COMPLETION DATA

GAS		$10^3m^3/d$
OIL		m^3/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
129.8 –	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
19.8 –	6.1	FRE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	20.1		
	HAMILTON	23.8		
	MARCELLUS			
	DUNDEE	104.0		
	COLUMBUS			
	LUCAS	131.3		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Lambton	TWP Enniskillen	BLK	TRAC 3-4
LOT 17	CON X		
WELL NAME Jacques #8 Enniskillen 3-4-17-X		PERMIT 6617	INIT CLASS DEV
OPERATOR Lambton Area Industries		TARGET DEV	CUR STATUS OP

DRILLING DATA			
CONTRACTOR	Newport, Lorne T.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.4	KB ELEV	204.3
BOT	143.0	LOGGER	
ROTRY TOP		DRILLER	143.0
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES	
PERMIT	1984-10-16
SPUD	1985-09-05
COMPTD	1985-10-02
OFFCNF	1985-11-02
WRKOVR	
ABNDND	

COORDINATES		
NORTH		m
SOUTH	656.5	m
EAST		m
WEST	207.9	m
LAT	42-52-30	
LONG	82-06-43	

SAMPLES	
TOP	18.0
BOT	142.6
TRAY	350

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	34	19	SHO	
140	21	136.6	CEM	
32		140.0	PAC	

COMPLETION DATA

GAS		$10^3m^3/d$
OIL		m^3/d
SIP		kPa
FORM	Dundee	
INTRVL	138.5-	m
	143.0	m
		m
PERF ☐	OPEN HOLE ☒	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
138.5 – 140.0		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
17.0 – 23.0	7.0	FRE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	27.5		
	MARCELLUS			
	DUNDEE	104.7		
	COLUMBUS			
	LUCAS	134.7		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Lambton	TWP Enniskillen	BLK	TRAC 3-5	LOT 17	CON X
WELL NAME Jacques #10 Enniskillen 17-X			PERMIT 6780	INIT CLASS DEV	
OPERATOR Lambton Area Industries Ltd.			TARGET DEV	CUR STATUS OP	

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Newport, Lorne T.			PERMIT	1985-05-10	NORTH	m	TOP	20.0
RIG TYPE	CAB	DEPTHS		SPUD	1985-06-28	SOUTH	900.7 m	BOT	143.3
CABLE TOP	0.8	KB ELEV	204.1	COMPTD	1985-08-05	EAST	m	TRAY	372
BOT	143.3	LOGGER		OFFCNF	1985-09-05	WEST	214.3 m		
ROTRY TOP		DRILLER	143.3	WRKOVR		LAT	42-52-23		
BOT		DEEP END		ABNDND		LONG	82-06-43		
DRLG FLD		PLUG BK							

INITIAL GAS RECORD		
INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD				
DIAM	WEIGHT	SET AT	HOW SET	RECOV
203.2		20.0	SHO	
178		25.0	SHO	
140		105.0	CEM	
32		140.0	PAC	

COMPLETION DATA		
GAS		10 ³m³/d
OIL	0.1	m³/d
SIP		kPa
FORM	Dundee-Lucas	
INTRVL	130.0-133.0	m
	136.0-143.0	m
		m
PERF ☐		OPEN HOLE ☒
REMARKS		

INITIAL OIL RECORD		
INTERVAL	FLOW	DENSITY
130.0 – 143.0	Show	
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LOGGING RECORD		
INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD		
INTERVAL	STAT LEV	TYPE
29.0 – 36.5	6.0	FRE
130.0 – 203.0		SUL
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CORING RECORD			
INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK					
	KB / LAKE LEVEL	0			SILURIAN	A2 ANHYDRITE			
	DRIFT / LAKE BOTTOM	0.8				A1 CARBONATE			
DEVONIAN	PORT LAMBTON					A1 SALT			
	KETTLE POINT	20.0				A1 ANHYDRITE			
	HAMILTON	25.2				GUELPH			
	MARCELLUS					ERAMOSA			
	DUNDEE	102.7				GOAT ISLAND			
	COLUMBUS					GASPORT/WIARTON			
	LUCAS	131.3				DECEW			
	AMHERSTBURG					ROCHESTER			
	SYLVANIA					IRONDEQUOIT			
	BOIS BLANC					REYNALES/FOSSIL HILL			
	SPRINGVALE					THOROLD			
	ORISKANY					GRIMSBY			
SILURIAN	BASS ISLANDS					CABOT HEAD			
	G SHALE					MANITOULIN			
	F SHALE					WHIRLPOOL			
	F SALT				ORDOVICIAN	QUEENSTON			
	E CARBONATE					BLUE MOUNTAIN - GEORG BAY			
	D SALT/EQUIVALENT					COLLINGWOOD			
	C SHALE					COBOURG			
	B MARKER					VERULAM			
	B EQUIVALENT					KIRKFIELD			
	B SALT					COBOCONK			
	B ANHYDRITE					GULL RIVER			
	A2 CARBONATE					SHADOW LAKE			
	A2 SALT					CAMBRIAN			
						PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY Lambton	TWP Enniskillen	BLK	TRAC 8	LOT 21	CON V
WELL NAME Cons OEC 33983 Enniskillen 8-21-V			PERMIT 6869	INIT CLASS NPW	
OPERATOR The Consumers' Gas Company Ltd.			TARGET SAL	CUR STATUS DH- ABD	

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Charles Shaw Drilling LTd.			PERMIT	1985-08-23	NORTH	289.5 m	TOP	19.0
RIG TYPE	CAB	DEPTHS		SPUD	1985-08-20	SOUTH	m	BOT	630.0
CABLE TOP	1.2	KB ELEV	203.8	COMPTD	1985-09-19	EAST	m	TRAY	1506
BOT	630.0	LOGGER	627.7	OFFCNF	1986-09-19	WEST	152.4 m		
ROTRY TOP		DRILLER	630.0	WRKOVR		LAT	42-48-35		
BOT		DEEP END		ABNDND	1985-09-20	LONG	82-04-59		
DRLG FLD	Water	PLUG BK							

INITIAL GAS RECORD		
INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD				
DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.0	19.9	SHO	19.9
219	36.0	124.7	SHO	124.7
178	30.0	339.2	CEM	250.6

COMPLETION DATA		
GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐
REMARKS		

INITIAL OIL RECORD		
INTERVAL	FLOW	DENSITY
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LOGGING RECORD		
INTERVAL	TYPE	COMPANY
0.5 – 625.8	GRNL	Computalog
502.5 – 627.4	DENL	"
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INITIAL WATER RECORD		
INTERVAL	STAT LEV	TYPE
18.0 –	9.0	FRE
158.0 –	80.0	FRE
622.0 –	618.0	SAL
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CORING RECORD			
INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK					
	KB / LAKE LEVEL	0			SILURIAN	A2 ANHYDRITE	577.2		
	DRIFT / LAKE BOTTOM	1.2				A1 CARBONATE	578.8		
DEVONIAN	PORT LAMBTON					A1 SALT			
	KETTLE POINT	19.4				A1 ANHYDRITE	614.2		
	HAMILTON	48.2				GUELPH	618.8		
	MARCELLUS					ERAMOSA			
	DUNDEE	122.6				GOAT ISLAND			
	COLUMBUS					GASPORT/WIARTON			
	LUCAS	147.0				DECEW			
	AMHERSTBURG	210.4				ROCHESTER			
	SYLVANIA					IRONDEQUOIT			
	BOIS BLANC	255.5				REYNALES/FOSSIL HILL			
	SPRINGVALE					THOROLD			
	ORISKANY					GRIMSBY			
SILURIAN	BASS ISLANDS	284.0				CABOT HEAD			
	G SHALE	328.2				MANITOULIN			
	F SHALE	334.4				WHIRLPOOL			
	F SALT				ORDOVICIAN	QUEENSTON			
	E CARBONATE	367.5				BLUE MOUNTAIN - GEORG BAY			
	D SALT/EQUIVALENT	404.6				COLLINGWOOD			
	C SHALE	416.3				COBOURG			
	B MARKER	437.2				VERULAM			
	B EQUIVALENT					KIRKFIELD			
	B SALT	444.3				COBOCONK			
	B ANHYDRITE					GULL RIVER			
	A2 CARBONATE	521.0				SHADOW LAKE			
	A2 SALT	560.2				CAMBRIAN			
						PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY:	Lambton	TWP:	Moore	BLK:		TRAC:	4	LOT:	2	CON:	XII
WELL NAME:	I.O.E. Moore Source Well No. 1 4-2-XII			PERMIT:	6902			INIT CLASS:	BD		
OPERATOR:	Cambrian Disposals Limited			TARGET:	DEV			CUR STATUS:			

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Bender, Harold E.			PERMIT	1985-10-17	NORTH:		m	TOP:	
RIG TYPE:	CAB	DEPTHS		SPUD	1985-10-10	SOUTH:	404.5	m	BOT:	
CABLE TOP		KB ELEV:		COMPTD	1985-10-12	EAST:		m	TRAY:	
BOT	243.8	LOGGER		OFFCNF	1986-10-12	WEST	20.7	m		
ROTRY TOP		DRILLER	243.8	WRKOVR		LAT	42-54-16			
BOT		DEEP END		ABNDND		LONG	82-14-10			
DRLG FLD		PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
177.8		150.0	CEM	

COMPLETION DATA

GAS		10 ³m³/d
OIL:		m³/d
SIP		kPa
FORM:		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☒	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

Tested disposal zone
with 36.6 M3 of
commercial brine.
No samples - re-entry

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	ANAL
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL			
	DRIFT / LAKE BOTTOM			
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D.K. Parker

CTY:	Lambton	TWP:	Moore	BLK:		TRAC:	2	LOT:	9	CON:	IV
WELL NAME:	Ram #81 Moore 2-9-IV			PERMIT:	6870			INIT CLASS:	NPW		
OPERATOR:	Ram Petroleums Limited			TARGET:	ORD			CUR STATUS:	OP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Corunna Drilling Limited			PERMIT:	1985-08-23	NORTH:		m	TOP:	62.0
RIG TYPE:	ROT	DEPTHS		SPUD:	1985-08-24	SOUTH:	200.0	m	BOT:	1291.0
CABLE TOP		KB ELEV:	185.3	COMPTD:	1985-09-13	EAST:	125.0	m	TRAY:	9097- 9098
BOT		LOGGER:	1285.7	OFFCNF:	1986-09-13	WEST:		m		
ROTRY TOP:	3.6	DRILLER:	1291.0	WRKOVR:		LAT:	42-48-37			
BOT:	1291.0	DEEP END:		ABNDND:		LONG:	82-18-16			
DRLG FLD:	Brine	PLUG BK:	650.5							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
299	62.5	55.5	CEM	
220	35.7	468.5	CEM	304.8
140	20.8	1175.0	CEM	893.0

COMPLETION DATA

GAS:		10 ³m³/d
OIL:	4.5	m³/d
SIP:	5930	kPa
FORM:	A1 Carbonate	
INTRVL:	643.0-	m
	648.5	m
		m
PERF ☒	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
649.0 – 655.0	Show	
684.0 – 687.0	Show	
1107.0 – 1110.0	Show	
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–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
458.0 – 1275.0	CNFD	Schlumberger
468.0 – 1281.0	DLLM	"
448.0 – 1282.0	SONL	"
464.0 – 1283.5	CBLK	"
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REMARKS

203.0-472.0 lost circulation.
No picks possible in this interval-
No samples or logs.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO.	ANAL
637.0 –644.2	PRL	889	Y
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	26.0		
	HAMILTON			
	MARCELLUS			
	DUNDEE	137.3		
	COLUMBUS			
	LUCAS	167.0		
	AMHERSTBURG			
	SYLVANIA	197.0		
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE	371.9		
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE	455.0		
	B MARKER	473.0		
	B EQUIVALENT			
	B SALT	480.5		
	B ANHYDRITE			
	A2 CARBONATE	568.2		
	A2 SALT	609.7		
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	638.7		
	A1 SALT			
	A1 ANHYDRITE	676.2		
	GUELPH	681.2		
	ERAMOSA			
	GOAT ISLAND	685.8		
	GASPORT/WIARTON	695.2		
	DECEW			
	ROCHESTER	712.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	725.4		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	728.3		
	MANITOULIN	758.6		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	765.6		
	BLUE MOUNTAIN - GEORG. BAY	859.2		
	COLLINGWOOD			
	COBOURG	953.0		
	VERULAM	990.7		
	KIRKFIELD	1047.0		
	COBOCONK	1099.8		
	GULL RIVER	1135.2		
	SHADOW LAKE	1245.2		
	CAMBRIAN	1246.6		
	PRECAMBRIAN	1247.9		

GEOLOGY BY: D. K. Parker

CTY	Lambton	TWP	Moore	BLK		TRAC	3	LOT	14	CON	X
WELL NAME	Brett Moore 3-14-X			PERMIT	6683			INIT CLASS	NPW		
OPERATOR	H. Brett & Associates Limited			TARGET	SAL			CUR STATUS	OP		

DRILLING DATA			
CONTRACTOR	James Newport Drilling Ltd.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.4	KB ELEV	200.6
BOT	766.0	LOGGER	765.0
ROTRY TOP		DRILLER	766.0
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES	
PERMIT	1985-02-19
SPUD	1985-07-22
COMPTD	1985-08-20
OFFCNF	1986-08-20
WRKOVR	
ABNDND	

COORDINATES		
NORTH		m
SOUTH	563.0	m
EAST	107.0	m
WEST		m
LAT	42-52-50	
LONG	82-20-48	

SAMPLES	
TOP	44.0
BOT	766.0
TRAY	9082
	9083

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.3	44.97	SHO	
219	35.7	146.97	SHO	146.9
178	25.3	375.59	CEM	
114		764.5	CEM	

COMPLETION DATA		
GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☒		OPEN HOLE ☐
REMARKS		

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
257.0 –	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
350.0 – 762.5	GRNL	Computalog
710.0 – 765.0	DENL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
43.0 –		FR
186.0 –	50.0	SUL
–		
–		
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	44.0		
	HAMILTON	64.0		
	MARCELLUS			
	DUNDEE	148.5		
	COLUMBUS			
	LUCAS	187.0		
	AMHERSTBURG	270.0		
	SYLVANIA			
	BOIS BLANC	309.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	321.8		
	G SHALE	379.4		
	F SHALE	385.4		
	F SALT	414.7		
	E CARBONATE	485.0		
	D SALT/EQUIVALENT	512.0		
	C SHALE	522.3		
	B MARKER	539.7		
	B EQUIVALENT			
	B SALT	547.8		
	B ANHYDRITE	633.5		
	A2 CARBONATE	634.6		
	A2 SALT	679.0		
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	709.2		
	A1 SALT			
	A1 ANHYDRITE	748.0		
	GUELPH	749.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY	Lambton	TWP	Moore	BLK		TRAC		LOT	17	CON	VII
WELL NAME	Tec. Kim-Col #52 Moore 2-17 VII			PERMIT	6715			INIT CLASS	NGS		
OPERATOR	Tecumseh Gas Storage Limited			TARGET	SAL			CUR STATUS			

DRILLING DATA			
CONTRACTOR	Charles Shaw Drilling Ltd.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.2	KB ELEV	195.5
BOT	692.0	LOGGER	690.5
ROTRY TOP		DRILLER	692.0
BOT		DEEP END	
DRLG FLD	Dry	PLUG BK	

DATES	
PERMIT	1985-03-12
SPUD	1985-03-15
COMPTD	1985-04-18
OFFCNF	1986-04-18
WRKOVR	
ABNDND	

COORDINATES		
NORTH		m
SOUTH	100.6	m
EAST	99.2	m
WEST		m
LAT	42-50-56	
LONG	82-21-46	

SAMPLES	
TOP	44.0
BOT	692.0
TRAY	9054-
	9055

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
666.0 –	Show	
670.0 – 672.0	8.78	2861
681.5 –	11.27	
–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
346	71.4	44.1	SHO	
273	60.2	156.0	SHO	156.0
219	35.7	382.6	CEM	
178	34.2	680.0	CEM	

COMPLETION DATA		
GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐
REMARKS		

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 688.5	GRNL	Computalog
680.0 – 690.5	DENL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
189.0 –	75.0	SUL
–		
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–		
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	43.5		
	HAMILTON	74.2		
	MARCELLUS			
	DUNDEE	152.4		
	COLUMBUS			
	LUCAS	183.4		
	AMHERSTBURG	260.7		
	SYLVANIA			
	BOIS BLANC	302.3		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	331.8		
	G SHALE	379.6		
	F SHALE	385.8		
	F SALT	420.0		
	E CARBONATE	461.7		
	D SALT/EQUIVALENT	488.2		
	C SHALE	499.4		
	B MARKER	511.8		
	B EQUIVALENT			
	B SALT	519.5		
	B ANHYDRITE			
	A2 CARBONATE	601.7		
	A2 SALT	646.6		
SILURIAN	A2 ANHYDRITE	657.8		
	A1 CARBONATE	658.7		
	A1 SALT			
	A1 ANHYDRITE	679.0		
	GUELPH	680.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY: Lambton	TWP: Moore	BLK:	TRAC:	LOT: 18	CON: VI
WELL NAME: Tec. Kim-Col. #47 Moore 18-VI			PERMIT: 6717	INIT CLASS: NCS	
OPERATOR: Tecumseh Gas Storage Limited			TARGET: SAL	CUR STATUS:	

DRILLING DATA			DATES	COORDINATES	SAMPLES
CONTRACTOR: James Newport Drilling Limited			PERMIT: 1985-03-12	NORTH: 76.2 m	TOP: 40.0
RIG TYPE: CAB	DEPTHS		SPUD: 1985-03-21	SOUTH: m	BOT: 689.0
CABLE TOP: 1.2	KB ELEV: 192.7		COMPTD: 1985-05-17	EAST: 207.3 m	TRAY: 9056
BOT: 689.0	LOGGER: 687.0		OFFCNF: 1986-05-17	WEST: m	9057
ROTRY TOP:	DRILLER: 689.0		WRKOVR:	LAT: 42-49-34	
BOT:	DEEP END:		ABNDND:	LONG: 82-22-11	
DRLG FLD: Dry	PLUG BK:				

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
581.0 –	Show	2448
584.0 –	Show	2448
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–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
346	71.4	40.8	SHO	
273	60.3	150.0	SHO	150.0
219	35.7	383.0	CEM	
178	34.2	561.7	CEM	

COMPLETION DATA

GAS		$10^3m^3/d$
OIL		m^3/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 684.6	GRNL	Computalog
581.0 – 687.4	DENL	"
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
37.0 –		FRE
185.0 –	40.0	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
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–			
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–			

GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	38.4		
	HAMILTON	70.5		
	MARCELLUS			
	DUNDEE	148.6		
	COLUMBUS			
	LUCAS	180.5		
	AMHERSTBURG	254.7		
	SYLVANIA			
	BOIS BLANC	309.5		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	337.4		
	G SHALE	374.0		
	F SHALE	380.7		
	F SALT	423.7		
	E CARBONATE	432.5		
	D SALT/EQUIVALENT	456.8		
	C SHALE	466.8		
	B MARKER	477.8		
	B EQUIVALENT			
	B SALT	484.8		
	B ANHYDRITE			
	A2 CARBONATE	549.4		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	573.2		
	A1 CARBONATE	581.1		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	591.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. PArker

CTY: Lambton	TWP: Moore	BLK:	TRAC:	LOT: 21	CON: VII
WELL NAME: Union Payne 19 Moore 21-VII			PERMIT: 6781	INIT CLASS: NGS	
OPERATOR: Union Gas Limited			TARGET: SAL	CUR STATUS:	

DRILLING DATA			DATES	COORDINATES	SAMPLES
CONTRACTOR: James Newport Drilling Limited			PERMIT: 1985-06-05	NORTH: 316.1 m	TOP: 38.0
RIG TYPE: CAB	DEPTHS		SPUD: 1985-06-07	SOUTH: m	BOT: 670.0
CABLE TOP: 1.2	KB ELEV:		COMPTD: 1985-07-30	EAST: 125.9 m	TRAY: 9084
BOT: 670.0	LOGGER: 668.7		OFFCNF: 1986-07-30	WEST: m	9085
ROTRY TOP:	DRILLER: 670.0		WRKOVR:	LAT: 42-50-28	
BOT:	DEEP END:		ABNDND:	LONG: 82-24-00	
DRLG FLD:	PLUG BK:				

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
599.0 – 670.0	6202	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.5	41.3	SHO	
273	60.3	152.3	SHO	152.3
219	35.7	389.6	CEM	
178	29.2	591.6	CEM	

COMPLETION DATA

GAS		$10^3m^3/d$
OIL		m^3/d
SIP	6202	kPa
FORM	Guelph	
INTRVL	599.0-670.0	m
		m
		m
PERF ☐		OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 666.5	GRNL	Computalog
590.5 – 668.3	DENL	"
8.7 – 576.6	CBND	"
8.7 – 576.6	SONL	"
–		
–		
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
38.0 – 40.0		FRE
190.0 –	51.0	SUL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS

		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	40.0		
	HAMILTON	74.0		
	MARCELLUS			
	DUNDEE	152.0		
	COLUMBUS			
	LUCAS	179.0		
	AMHERSTBURG	270.8		
	SYLVANIA			
	BOIS BLANC	286.7		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	339.8		
	G SHALE	379.7		
	F SHALE	386.0		
	F SALT	428.2		
	E CARBONATE	443.2		
	D SALT/EQUIVALENT	469.0		
	C SHALE	479.7		
	B MARKER	490.4		
	B EQUIVALENT			
	B SALT	497.0		
	B ANHYDRITE			
	A2 CARBONATE	559.7		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	587.2		
	A1 CARBONATE	597.1		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	618.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY Lambton	TWP Moore	BLK	TRAC	LOT 21	CON VII
WELL NAME Union Payne #21 Moore 21-VII		PERMIT 6783		INIT CLASS NGS	
OPERATOR Union Gas Limited		TARGET SAL		CUR STATUS	

DRILLING DATA			
CONTRACTOR	Charles Shaw Drilling Ltd.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.2	KB ELEV	195.8
BOT	671.0	LOGGER	671.0
ROTRY TOP		DRILLER	671.0
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES	
PERMIT	1985-06-05
SPUD	1985-06-10
COMPTD	1985-07-31
OFFCNF	1986-07-31
WRKOVR	
ABNDND	

COORDINATES		
NORTH		m
SOUTH	303.6	m
EAST	61.0	m
WEST		m
LAT	42-50-51	
LONG	82-23-36	

SAMPLES	
TOP	42.0
BOT	670.0
TRAY	9080- 9081

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
603.0 – 670.0		6202
158.5 –	show	
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–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
34.0	71.5	43.5	SHO	
273	60.3	159.4	SHO	159.4
219	35.7	395.1	CEM	
178	29.2	596.0	CEM	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP	6202	kPa
FORM	Guelph	
INTRVL	603.0-670.0	m
		m
		m
PERF ☐	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 668.0	GRNL	Computalog
– 578.6	SONL	"
596.0 – 669.3	DENL	"
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
39.0 –		FRE
163.0 –	45.07	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	44.3		
	HAMILTON	78.8		
	MARCELLUS			
	DUNDEE	158.0		
	COLUMBUS			
	LUCAS	188.6		
	AMHERSTBURG	260.4		
	SYLVANIA			
	BOIS BLANC	317.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	334.8		
	G SHALE	382.0		
	F SHALE	388.6		
	F SALT	434.0		
	E CARBONATE	453.4		
	D SALT/EQUIVALENT	476.2		
	C SHALE	488.5		
	B MARKER	499.3		
	B EQUIVALENT			
	B SALT	506.3		
	B ANHYDRITE			
	A2 CARBONATE	565.8		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	594.3		
	A1 CARBONATE	601.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	610.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	CUBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Lambton	TWP Moore	BLK	TRAC	LOT 22	CON VII
WELL NAME Union Payne 20 Moore 22-VII		PERMIT 6782		INIT CLASS NGS	
OPERATOR Union Gas Limited		TARGET SAL		CUR STATUS	

DRILLING DATA			
CONTRACTOR	James Newport Drilling Limited		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.3	KB ELEV	195.1
BOT	697.0	LOGGER	695.2
ROTRY TOP		DRILLER	697.0
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES	
PERMIT	1985-06-05
SPUD	1985-06-04
COMPTD	1985-07-12
OFFCNF	1986-07-12
WRKOVR	
ABNDND	

COORDINATES		
NORTH	458.6	m
SOUTH		m
EAST		m
WEST	153.3	m
LAT	42-50-32	
LONG	82-23-47	

SAMPLES	
TOP	40.0
BOT	697.0
TRAY	9086- 9087

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
664.0–	Show	
694.0– 697.0	18.7	4850
–		
–		
–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
34.0	71.4	40.8	SHO	
273	60.3	157.61	SHO	157.61
219	35.7	390.1	CEM	

COMPLETION DATA

GAS	18.7	10³m³/d
OIL		m³/d
SIP	4850	kPa
FORM	Guelph	
INTRVL	694.0-697.0	m
		m
		m
PERF ☐	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
687.0–	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
390.0 – 694.5	DENL	Computalog
– 692.8	GRNL	"
1.6 – 374.8	SONL	"
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
40.0 –		FRE
162.0–	160.0	SUL
440.0–		SAL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
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–			
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–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	39.3		
	HAMILTON	76.4		
	MARCELLUS			
	DUNDEE	156.0		
	COLUMBUS			
	LUCAS	191.4		
	AMHERSTBURG	273.4		
	SYLVANIA			
	BOIS BLANC	329.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	342.5		
	G SHALE	385.5		
	F SHALE	392.4		
	F SALT	436.2		
	E CARBONATE	455.3		
	D SALT/EQUIVALENT	[illegible]		
	C SHALE	490.7		
	B MARKER	505.5		
	B EQUIVALENT			
	B SALT	513.0		
	B ANHYDRITE			
	A2 CARBONATE	596.2		
	A2 SALT	642.4		

SILURIAN	A2 ANHYDRITE	660.2		
	A1 CARBONATE	662.8		
	A1 SALT			
	A1 ANHYDRITE	683.0		
	GUELPH	688.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Lambton TWP Moore BLK TRAC LOT 23 CON XII
WELL NAME Dow #82 Moore 23-XII PERMIT 6808 INIT CLASS SM
OPERATOR Dow Chemical Canada Inc. TARGET SAL CUR STATUS

DRILLING DATA			
CONTRACTOR	B & S Rotary Drillingltd.		
RIG TYPE	BOT	DEPTHS	
CABLE TOP		KB ELEV	194.7
BOT		LOGGER	663.0
ROTRY TOP	3.5	DRILLER	662.0
BOT	662.0	DEEP END	
DRLG FLD	Brine	PLUG BK	

DATES	
PERMIT	1985-06-06
SPUD	1985-07-24
COMPTD	1985-08-03
OFFCNF	1986-08-03
WRKOVR	
ABNDND	1985-09-02

COORDINATES		
NORTH	163.4	m
SOUTH		m
EAST	74.1	m
WEST		m
LAT	42-54-01	
LONG	82-24-22	

SAMPLES	
TOP	93.0
BOT	662.0
TRAY	9090

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	71.4	93.0	CEM	
245	53.5	595.0	CEM	
178	29.7	654.0	HAN	
114	14.1	659.0	HAN	

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
4.0 – 663.0	CRNL	Computalog
93.4 - 663.0	CALP	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
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–			
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–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	40.7		
	HAMILTON	91.4		
	MARCELLUS			
	DUNDEE	175.5		
	COLUMBUS			
	LUCAS	209.2		
	AMHERSTBURG	288.8		
	SYLVANIA			
	BOIS BLANC	344.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	355.3		
	G SHALE	417.0		
	F SHALE	423.7		
	F SALT	448.0		
	E CARBONATE	535.7		
	D SALT/EQUIVALENT	554.4		
	C SHALE	566.6		
	B MARKER	578.8		
	B EQUIVALENT			
	B SALT	585.2		
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY Lambton TWP Moore BLK TRAC LOT 25 CON XI
WELL NAME Dow HC#9 Moore 25-XI PERMIT 6622 INIT CLASS SM
OPERATOR Dow Chemical Canada Inc. TARGET SAL CUR STATUS

DRILLING DATA			
CONTRACTOR	B & S Rotary Drilling Ltd.		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	196.7
BOT		LOGGER	662.0
ROTRY TOP	5.4	DRILLER	665.0
BOT	665.0	DEEP END	
DRLG FLD	Salt Mud	PLUG BK	

DATES	
PERMIT	1984-10-26
SPUD	1985-01-04
COMPTD	1985-01-21
OFFCNF	1986-01-21
WRKOVR	
ABNDND	

COORDINATES		
NORTH		m
SOUTH	611.4	m
EAST		m
WEST	595.0	m
LAT	42-53-39	
LONG	82-25-20	

SAMPLES	
TOP	93.0
BOT	584.0
TRAY	3270

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
508	158.4	91.0	CEM	
339	90.7	579.0	CEM	
219	35.7	597.0	HAN	
139	20.8	660.0	HAN	

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
27.5 – 600.0	CBND	Computalog
0 – 659.8	GRNL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
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–			
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–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	5.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	46.6		
	HAMILTON	104.2		
	MARCELLUS			
	DUNDEE	189.4		
	COLUMBUS			
	LUCAS	223.4		
	AMHERSTBURG	297.3		
	SYLVANIA			
	BOIS BLANC	342.4		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	367.7		
	G SHALE	416.3		
	F SHALE	422.8		
	F SALT	446.8		
	E CARBONATE	523.0		
	D SALT/EQUIVALENT	549.8		
	C SHALE	563.2		
	B MARKER	575.4		
	B EQUIVALENT			
	B SALT	580.7		
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY	Lambton	TWP	Moore	BLK		TRAC		LOT	25	CON	XI
WELL NAME	Dow H.C. #11-Moore 25-XI					PERMIT	6807	INIT CLASS	SM		
OPERATOR	Dow Chemical Canada Inc.					TARGET	SAL	CUR STATUS			

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	B & S Rotary Drilling Ltd.			PERMIT	1985-06-06	NORTH		m	TOP	92
RIG TYPE	ROT	DEPTHS		SPUD	1985-08-12	SOUTH	611.4	m	BOT	667.0
CABLE TOP		KB ELEV	195.1	COMPTD	1985-08-22	EAST		m	TRAY	1330
BOT		LOGGER	670.5	OFFCNF	1986-08-22	WEST	304.8	m		
ROTRY TOP	3.5	DRILLER	670.0	WRKOVR		LAT	42-53-38			
BOT	670.0	DEEP END		ABNDND		LONG	82-25-07			
DRLG FLD	BRINE	PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
339.7	71.4	93.0	CEM	
244.5	53.5	577.0	CEM	
177.8	29.7	663.0	HAN	
114.3	14.1	668.0	HAN	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☒	OPEN HOLE ☐	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
3.0 – 670.5	GRNL	Computalog
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–		
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	46.0		
	HAMILTON	104.2		
	MARCELLUS			
	DUNDEE	188.7		
	COLUMBUS			
	LUCAS	226.0		
	AMHERSTBURG	301.0		
	SYLVANIA			
	BOIS BLANC	349.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	367.2		
	G SHALE	415.2		
	F SHALE	421.8		
	F SALT	445.5		
	E CARBONATE	521.0		
	D SALT/EQUIVALENT	548.0		
	C SHALE	557.2		
	B MARKER	572.0		
	B EQUIVALENT			
	B SALT	579.0		
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY	Lambton	TWP	Moore	BLK		TRAC		LOT	25	CON	XI
WELL NAME	Dow H.C. #12 Moore 25-XI					PERMIT	6809	INIT CLASS	SM		
OPERATOR	Dow Chemical Canada Inc.					TARGET	SAL	CUR STATUS			

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	B & S Rotary Drilling Ltd.			PERMIT	1985-06-06	NORTH		m	TOP	92.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-09-03	SOUTH	611.4	m	BOT	672.0
CABLE TOP		KB ELEV	195.1	COMPTD	1985-09-14	EAST		m	TRAY	8315
BOT		LOGGER	672.5	OFFCNF	1986-09-14	WEST	152.4	m		
ROTRY TOP	3.5	DRILLER	672.0	WRKOVR		LAT	42-53-38			
BOT	672.0	DEEP END		ABNDND		LONG	82-25-00			
DRLG FLD	Water	PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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–		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
339.7	90.7	92.0	CEM	
244.5	53.5	577.0	CEM	
177.8	29.7	662.0	HAN	
114.3	14.1	668.0	HAN	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☒	

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
35.0 – 579.9	SONL	Computalog
– 670.5	GRNL	"
–		
–		
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–		

REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	44.2		
	HAMILTON	100.0		
	MARCELLUS			
	DUNDEE	184.8		
	COLUMBUS			
	LUCAS	234.0		
	AMHERSTBURG	293.8		
	SYLVANIA			
	BOIS BLANC	352.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	364.2		
	G SHALE	414.7		
	F SHALE	421.6		
	F SALT	446.2		
	E CARBONATE	519.2		
	D SALT/EQUIVALENT	547.0		
	C SHALE	559.4		
	B MARKER	571.6		
	B EQUIVALENT			
	B SALT	590.0		
	B ANHYDRITE			
	A2 CARBONATE	668.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY Lambton	TWP Moore	BLK	TRAC 3	LOT 27	CON III
WELL NAME Forbes #39 Moore 3-27-III			PERMIT 6890	INIT CLASS NPW	
OPERATOR Forbes Resources Inc.			TARGET SAL	CUR STATUS DH-ABD	

DRILLING DATA		DATES	COORDINATES	SAMPLES
CONTRACTOR James Newport DrillingLimited		PERMIT 1985-09-25	NORTH m	TOP 55.0
RIG TYPE CAB	DEPTHS	SPUD 1985-09-30	SOUTH 487.7 m	BOT 766.0
CABLE TOP 1.2	KB ELEV 191.3	COMPTD 1985-11-06	EAST 243.8 m	TRAY 9103
BOT 766.0	LOGGER	OFFCNF 1986-11-06	WEST m	9104
ROTRY TOP	DRILLER 766.0	WRKOVR	LAT 42-47-53	
BOT	DEEP END	ABNDND 1985-11-14	LONG 82-26-14	
DRLG FLD	PLUG BK			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273.1		54.4	SHO	36.6
219.1		226.8	SHO	226.8
177.8		448.1	CEM	358.1

COMPLETION DATA

GAS 10 ³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
51.0 –		FRE
255.0 –	61.0	SUL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON	55.0		
	KETTLE POINT	100.0		
	HAMILTON	153.0		
	MARCELLUS			
	DUNDEE	226.0		
	COLUMBUS			
	LUCAS	259.0		
	AMHERSTBURG	329.0		
	SYLVANIA			
	BOIS BLANC	376.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	401.0		
	G SHALE	434.0		
	F SHALE	440.7		
	F SALT			
	E CARBONATE	474.0		
	D SALT/EQUIVALENT	511.0		
	C SHALE	522.0		
	B MARKER	537.0		
	B EQUIVALENT			
	B SALT	546.0		
	B ANHYDRITE			
	A2 CARBONATE	640.0		
	A2 SALT	688.0		

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	714.0		
	A1 SALT			
	A1 ANHYDRITE	752.0		
	GUELPH	755.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. PArker

CTY Lambton	TWP Sarnia	BLK	TRAC	LOT 8	CON B
WELL NAME Dome Amoco RO-6B Sarnia 8-B			PERMIT 6679	INIT CLASS LPC	
OPERATOR Dome Petroleum Limited			TARGET SAL	CUR STATUS	

DRILLING DATA		DATES	COORDINATES	SAMPLES
CONTRACTOR B & S Rotary Drillings Ltd.		PERMIT 1985-02-01	NORTH 202.4 m	TOP
RIG TYPE ROT	DEPTHS	SPUD 1985-02-08	SOUTH m	BOT
CABLE TOP	KB ELEV 192.6	COMPTD 1985-02-21	EAST 709.4 m	TRAY
BOT	LOGGER	OFFCNF 1985-02-21	WEST m	
ROTRY TOP 5.4	DRILLER 816.0	WRKOVR	LAT 42-57-00	
BOT 816.0	DEEP END	ABNDND	LONG 82-21-39	
DRLG FLD	PLUG BK			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
508	140.0	70.0	CEM	
340	81.0	807.0	CEM	

COMPLETION DATA

GAS 10 ³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

REMARKS

No samples

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
40.5 – 815.0	DIRS	Schlumberger
48.5 – 708.0	CBND	"
73.0 – 815.0	CNFD	"
66.3 – 814.3	CBL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	5.4		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	156.4		
	COLUMBUS			
	LUCAS	192.0		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC	293.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	354.5		
	G SHALE	431.4		
	F SHALE	438.4		
	F SALT	460.5		
	E CARBONATE	561.6		
	D SALT/EQUIVALENT	589.4		
	C SHALE	601.8		
	B MARKER			
	B EQUIVALENT			
	B SALT	628.2		
	B ANHYDRITE			
	A2 CARBONATE	715.8		
	A2 SALT	761.3		

SILURIAN	A2 ANHYDRITE	799.5		
	A1 CARBONATE	802.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY	Lambton	TWP	Sombra	BLK		TRAC	3	LOT	11	CON	IX
WELL NAME	Imperial Oil #270 Duthill #7 Sombra 3-11-X			PERMIT	6885			INIT CLASS	NPW		
OPERATOR	Forbes Resources Inc.			TARGET	SAL			CUR STATUS	OS- ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	James Newport Drilling Limited			PERMIT	1985-09-16	NORTH	548.6	m	TOP	
RIG TYPE	CAB	DEPTHS		SPUD	1985-09-17	SOUTH		m	BOT	
CABLE TOP	1.2	KB ELEV	183.2	COMPTD	1985-09-23	EAST	61.0	m	TRAY	2705
BOT	535.0	LOGGER		OFFCNF	1985-10-23	WEST		m		
ROTRY TOP		DRILLER	535.0	WRKOVR		LAT	42-41-03			
BOT		DEEP END		ABNDND		LONG	82-23-28			
DRLG FLD		PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
514.5 – 518.2	Show	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273.		48.8		
177.		385.6		
139.		510.2	CEM	

COMPLETION DATA

GAS $10^{3}\,\mathrm{m^3/d}$
OIL $\mathrm{m^3/d}$
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

REMARKS

Re-opening of old well. No new data.

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
517.2 – 541.9	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK	SILURIAN	A2 ANHYDRITE			
	KB / LAKE LEVEL	0				A1 CARBONATE			
	DRIFT / LAKE BOTTOM	1.2				A1 SALT			
DEVONIAN	PORT LAMBTON					A1 ANHYDRITE			
	KETTLE POINT					GUELPH			
	HAMILTON					ERAMOSA			
	MARCELLUS					GOAT ISLAND			
	DUNDEE					GASPORT/WIARTON			
	COLUMBUS					DECEW			
	LUCAS					ROCHESTER			
	AMHERSTBURG					IRONDEQUOIT			
	SYLVANIA					REYNALES/FOSSIL HILL			
	BOIS BLANC					THOROLD			
	SPRINGVALE					GRIMSBY			
	ORISKANY					CABOT HEAD			
SILURIAN	BASS ISLANDS					MANITOULIN			
	G SHALE					WHIRLPOOL			
	F SHALE				ORDOVICIAN	QUEENSTON			
	F SALT					BLUE MOUNTAIN - GEORG BAY			
	E CARBONATE					COLLINGWOOD			
	D SALT/EQUIVALENT					COBOURG			
	C SHALE					VERULAM			
	B MARKER					KIRKFIELD			
	B EQUIVALENT					COBOCONK			
	B SALT					GULL RIVER			
	B ANHYDRITE					SHADOW LAKE			
	A2 CARBONATE					CAMBRIAN			
	A2 SALT					PRECAMBRIAN			

GEOLOGY BY: D.K. Parker

CTY	Lambton	TWP	Sombra	BLK	–	TRAC	6	LOT	11	CON	IX
WELL NAME	Forbes #41 Sombra 6-11-IX			PERMIT	6933			INIT CLASS	DEV		
OPERATOR	Forbes Resources Inc.			TARGET	SAL			CUR STATUS	OS - ABD		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	James Newport Drilling Limited			PERMIT	85-11-13	NORTH	447.2	m	TOP	38
RIG TYPE	CAB	DEPTHS		SPUD	85-11-14	SOUTH	–	m	BOT	567
CABLE TOP	1.2	KB ELEV	184.4	COMPTD	85-12-16	EAST	141.6	m	TRAY	7849
BOT	566.0	LOGGER	564.5	OFFCNF	86-01-15	WEST	–	m		
ROTRY TOP	–	DRILLER	566.0	WRKOVR	–	LAT	42-31-00			
BOT	–	DEEP END	–	ABNDND	86-07-15	LONG	82-23-25			
DRLG FLD	–	PLUG BK	–							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
274	60.3	41.7	SHO	41.7
219	35.7	178.2	SHO	158.5
178	29.8	389.8	CEM	304.8
140	19.4	563.2	CEM	426.7

COMPLETION DATA

GAS $10^{3}\,\mathrm{m^3/d}$
OIL $\mathrm{m^3/d}$
SIP kPa
FORM
INTRVL m
m
m
PERF ☒ OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
524 – 526	–	–
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
270.0 – 564.5	CBL	COM
270.0 – 564.5	NEUT	"
477.0 – 564.5	DENL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
39.0 – –	–	FRE
215.0 – –	40.0	SUL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK	SILURIAN	A2 ANHYDRITE			
	KB / LAKE LEVEL	0				A1 CARBONATE			
	DRIFT / LAKE BOTTOM	1.2				A1 SALT			
DEVONIAN	PORT LAMBTON					A1 ANHYDRITE			
	KETTLE POINT	38.0				GUELPH	512.9		
	HAMILTON	108.0				ERAMOSA			
	MARCELLUS					GOAT ISLAND			
	DUNDEE	180.0				GASPORT/WIARTON			
	COLUMBUS					DECEW			
	LUCAS	215.0				ROCHESTER			
	AMHERSTBURG	281.5				IRONDEQUOIT			
	SYLVANIA					REYNALES/FOSSIL HILL			
	BOIS BLANC	326.0				THOROLD			
	SPRINGVALE					GRIMSBY			
	ORISKANY					CABOT HEAD			
SILURIAN	BASS ISLANDS	347.0				MANITOULIN			
	G SHALE	381.3				WHIRLPOOL			
	F SHALE	387.8			ORDOVICIAN	QUEENSTON			
	F SALT					BLUE MOUNTAIN - GEORG BAY			
	E CARBONATE	431.0				COLLINGWOOD			
	D SALT/EQUIVALENT					COBOURG			
	C SHALE	456.2				VERULAM			
	B MARKER	475.9				KIRKFIELD			
	B EQUIVALENT	483.5				COBOCONK			
	B SALT					GULL RIVER			
	B ANHYDRITE	491.3				SHADOW LAKE			
	A2 CARBONATE	495.2				CAMBRIAN			
	A2 SALT					PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY Lambton	TWP Sombra	BLK	TRAC 2	LOT 26	CON VI
WELL NAME Ram #82 Sombra 2-26-VI			PERMIT 6875	INIT CLASS NPW	
OPERATOR Ram Petroleums Limited			TARGET ORD	CUR STATUS DH-ABD	

DRILLING DATA		DATES		COORDINATES			SAMPLES
CONTRACTOR Corunna Drilling Limited		PERMIT	1985-08-23	NORTH		m	TOP 66.0
RIG TYPE ROT	DEPTHS	SPUD	1985-09-18	SOUTH	106.7	m	BOT 1099.0
CABLE TOP	KB ELEV 186.9	COMPTD	1985-10-03	EAST	106.7	m	TRAY 9101-
BOT	LOGGER 1098.0	OFFCNF	1986-10-03	WEST		m	9102
ROTRY TOP 3.7	DRILLER 1098.5	WRKOVR		LAT	42-39-04		
BOT 1098.5	DEEP END	ABNDND	1985-10-23	LONG	82-16-50		
DRLG FLD BRINE	PLUG BK						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
299	62.5	62.5	CEM	
220	35.7	579.0	CEM	275.0

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
62.5 – 1097.0	LATL	Schlumberger
50.2 – 1087.3	CNFD	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	REC
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.7		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	27.0		
	HAMILTON	120.8		
	MARCELLUS			
	DUNDEE	186.2		
	COLUMBUS			
	LUCAS	213.0		
	AMHERSTBURG	289.3		
	SYLVANIA			
	BOIS BLANC	323.7		
	SPRINGVALE			
	ORISKANY	345.7		
SILURIAN	BASS ISLANDS	349.4		
	G SHALE	386.8		
	F SHALE	393.0		
	F SALT			
	E CARBONATE	427.7		
	D SALT/EQUIVALENT	466.3		
	C SHALE	468.6		
	B MARKER	481.2		
	B EQUIVALENT			
	B SALT	496.5		
	B ANHYDRITE			
	A2 CARBONATE	511.8		
	A2 SALT	550.3		
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	578.8		
	A1 SALT			
	A1 ANHYDRITE	591.2		
	GUELPH	596.0		
	ERAMOSA			
	GOAT ISLAND	600.7		
	GASPORT/WIARTON	610.3		
	DECEW			
	ROCHESTER	628.7		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	635.7		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	636.8		
	MANITOULIN	669.3		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	677.5		
	BLUE MOUNTAIN - GEORG BAY	767.8		
	COLLINGWOOD			
	COBOURG	880.8		
	VERULAM	927.2		
	KIRKFIELD	972.0		
	COBOCONK	1021.0		
	GULL RIVER	1056.3		
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY Lambton	TWP Sombra	BLK	TRAC 3	LOT 26	CON VI
WELL NAME Ram #84 Sombra 3-26-VI			PERMIT 6907	INIT CLASS NPW	
OPERATOR Ram Petroleums Limited			TARGET ORD	CUR STATUS GP	

DRILLING DATA		DATES		COORDINATES			SAMPLES
CONTRACTOR Corunna Drilling Limited		PERMIT	1985-10-23	NORTH		m	TOP 77.0
RIG TYPE ROT	DEPTHS	SPUD	1985-10-28	SOUTH	442.0	m	BOT 1189.0
CABLE TOP	KB ELEV 186.9	COMPTD	1985-11-13	EAST	106.7	m	TRAY 6842-
BOT	LOGGER 1189.1	OFFCNF	1986-11-13	WEST		m	6843
ROTRY TOP 3.6	DRILLER 1190.0	WRKOVR		LAT	42-33-53		
BOT 1190.0	DEEP END	ABNDND		LONG	82-16-49		
DRLG FLD	PLUG BK 1175.0						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
299	62.5	75.0	CEM	
220	35.7	578.5	CEM	
140	25.3	1185.5	CEM	

COMPLETION DATA

GAS	70.8	10³m³/d
OIL		m³/d
SIP	7860	kPa
FORM	Coboconk	
INTRVL	1057.5-1062.5	m
		m
		m
PERF ☒	OPEN HOLE ☐	

REMARKS

28% HCl used in T&S

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
901.0 – 904.0	Show	
1048.0 – 1051.0	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
24.0 – 1180.0	CNFD	Schlumberger
585.0 – 1188.0	DLLM	"
400.0 – 1188.0	SONL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO.	REC
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	3.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	75.6		
	HAMILTON	115.6		
	MARCELLUS			
	DUNDEE	178.8		
	COLUMBUS			
	LUCAS	205.0		
	AMHERSTBURG	261.4		
	SYLVANIA			
	BOIS BLANC	295.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	334.5		
	G SHALE	378.0		
	F SHALE	384.0		
	F SALT			
	E CARBONATE	412.5		
	D SALT/EQUIVALENT	452.5		
	C SHALE	456.8		
	B MARKER	469.2		
	B EQUIVALENT	477.8		
	B SALT	483.2		
	B ANHYDRITE			
	A2 CARBONATE	512.4		
	A2 SALT	557.8		
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	569.2		
	A1 SALT			
	A1 ANHYDRITE	601.8		
	GUELPH	607.7		
	ERAMOSA			
	GOAT ISLAND	614.0		
	GASPORT/WIARTON	623.7		
	DECEW			
	ROCHESTER	642.3		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	649.6		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	650.8		
	MANITOULIN	689.0		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	700.4		
	BLUE MOUNTAIN - GEORG BAY	790.4		
	COLLINGWOOD			
	COBOURG	902.2		
	VERULAM	948.0		
	KIRKFIELD	992.8		
	COBOCONK	1041.0		
	GULL RIVER	1072.3		
	SHADOW LAKE	1167.0		
	CAMBRIAN			
	PRECAMBRIAN	1168.8		

GEOLOGY BY D.K. PArker

CTY: Lambton	TWP: Sombra	BLK:	TRAC: 2-3	LOT: 30	CON: XV
WELL NAME: Bakersfield #1 Sombra 2-3-30-XV			PERMIT: 6841	INIT CLASS: NPW	
OPERATOR: Baker, J.W.			TARGET: DEV	CUR STATUS: DH-ABD	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Pedrilex Corp Ltd.			PERMIT:	1985-08-14	NORTH:		m	TOP:	22.0
RIG TYPE:	CAB	DEPTHS		SPUD:	1985-08-15	SOUTH:	391.7	m	BOT:	158.5
CABLE TOP:	0.3	KB ELEV:	190.8	COMPTD:	1985-09-16	EAST:	88.4	m	TRAY:	366
BOT:	158.5	LOGGER:		OFFCNF:	1986-09-16	WEST:		m		
ROTRY TOP:		DRILLER:	158.5	WRKOVR:		LAT:	42-45-33			
BOT:		DEEP END:		ABNDND:	1985-09-24	LONG:	82-14-46			
DRLG FLD:		PLUG BK:								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
21.3 –		
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
177.8		21.6	SHO	

COMPLETION DATA

GAS:	10³m³/d
OIL:	m³/d
SIP:	kPa
FORM:	
INTRVL:	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
21.3 –	10.7	FRE
156.9 –		SUL
–		
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	18.3		
	HAMILTON	51.3		
	MARCELLUS			
	DUNDEE	119.4		
	COLUMBUS			
	LUCAS	152.0		
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D.K. Parker

CTY: Lambton	TWP: Warwick	BLK:	TRAC: 3	LOT: 4	CON: IIISER
WELL NAME: C.G. Oil #3 Warwick 3-4-III SER			PERMIT: 6673	INIT CLASS: NPW	
OPERATOR: C.G. Oil Explorations Inc.			TARGET: SAL	CUR STATUS: DH	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Circle A Drilling Inc.			PERMIT:	1985-07-19	NORTH:		m	TOP:	20.0
RIG TYPE:	CAB	DEPTHS		SPUD:	1985-07-22	SOUTH:	556.6	m	BOT:	681.0
CABLE TOP:	1.0	KB ELEV:	215.6	COMPTD:	1985-08-27	EAST:	277.7	m	TRAY:	9099
BOT:	681.0	LOGGER:		OFFCNF:	1986-08-27	WEST:		m		9100
ROTRY TOP:		DRILLER:	681.0	WRKOVR:		LAT:	42-58-29			
BOT:		DEEP END:		ABNDND:		LONG:	81-59-22			
DRLG FLD:		PLUG BK:								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
254		17.7	SHO	15.2
219		125.0	SHO	125.0
178		334.0	CEM	79.2

COMPLETION DATA

GAS:	10³m³/d
OIL:	m³/d
SIP:	kPa
FORM:	
INTRVL:	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
17.0 –		FRE
159.0 –		SUL
335.0 –		SUL & SAL
670.0 –		SAL
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
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	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	20.2		
	HAMILTON	40.0		
	MARCELLUS			
	DUNDEE	119.0		
	COLUMBUS			
	LUCAS	159.0		
	AMHERSTBURG	227.0		
	SYLVANIA			
	BOIS BLANC	279.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	295.0		
	G SHALE	340.5		
	F SHALE	347.0		
	F SALT	381.0		
	E CARBONATE	426.8		
	D SALT/EQUIVALENT	444.0		
	C SHALE	459.7		
	B MARKER	476.8		
	B EQUIVALENT			
	B SALT	485.0		
	B ANHYDRITE			
	A2 CARBONATE	561.0		
	A2 SALT	684.0		

SILURIAN	A2 ANHYDRITE	628.0		
	A1 CARBONATE	628.7		
	A1 SALT			
	A1 ANHYDRITE	670.0		
	GUELPH	673.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY	Manitoulin Island	TWP	Cockburn Island	BLK	TRAC	LOT 16	CON II
WELL NAME	OGS 85-7 Cockburn Island 16-11			PERMIT	6883	INIT CLASS	STR
OPERATOR	Ontario Geological Survey			TARGET	PRE	CUR STATUS	

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Bradley Bros. Limited			PERMIT	1985-09-16	NORTH	m	TOP	32.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-09-09	SOUTH	m	BOT	521.0
CABLE TOP		KB ELEV	193.7	COMPTD	1985-09-17	EAST	m	TRAY	9127-
BOT		LOGGER		OFFCNF	1986-09-17	WEST	m		9128-
ROTRY TOP	1.3	DRILLER	521.0	WRKOVR		LAT 45-52-02			9129
BOT	521.0	DEEP END		ABNDND	1985-09-17	LONG 83-20-42			
DRLG FLD		PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
88.9		34.5	CEM	
66.7		43.0	HAN	43.0

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
42.0 – 519.0	ISF	
– 518.0	CRNL	British
1.5 – 518.0	DENL	Plaster
–		Board
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REMARKS

No recognizable subdivisions within Trent on-Black River interval.
Core chip samples.
Core in Sault Ste. Marie.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
27.0 –		FRE
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
32.0 – 521.0	COM		N
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	~~GASPORT/WIARTON~~ Amabel	28.9		
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	74.0		
	THOROLD St. Edmund	107.4		
	GRIMSBY Wingfield	146.8		
	CABOT HEAD	165.2		
	MANITOULIN	183.2		
	WHIRLPOOL			
ORDOVICIAN	~~QUEENSTON~~ Georgian Bay	200.5		
	BLUE MOUNTAIN - GEORG BAY	259.0		
	COLLINGWOOD	324.8		
	COBOURG	331.0		
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE	432.5		
	CAMBRIAN	442.4		
	PRECAMBRIAN	483.0		

GEOLOGY BY T. R. Carter

CTY	Middlesex	TWP	Ekfrid	BLK	TRAC 4-2	LOT 6	CON V
WELL NAME	C & G Oil #6 Ekfrid 4-2-6-V			PERMIT	6908	INIT CLASS	NPW
OPERATOR	C.G. Oil Exploration Inc.			TARGET	DEV	CUR STATUS	DH-ABD

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Eagle Drilling Services Inc.			PERMIT	1985-10-23	NORTH	m	TOP	48.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-10-23	SOUTH 304.3	m	BOT	137.2
CABLE TOP		KB ELEV	224.3	COMPTD	1985-10-25	EAST 214.8	m	TRAY	402
BOT		LOGGER		OFFCNF	1986-10-25	WEST	m		
ROTRY TOP	1.1	DRILLER	137.2	WRKOVR		LAT 42-51-14			
BOT	137.2	DEEP END		ABNDND	1985-10-26	LONG 81-39-40			
DRLG FLD		PLUG BK							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178		46.0	CEM	

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.1		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT	35.6		
	HAMILTON	37.8		
	MARCELLUS			
	DUNDEE	97.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D.K. Parker

CTY: Middlesex	TWP: Ekfrid	BLK:	TRAC: 4	LOT: 14	CON: IVS
WELL NAME: Cons et al 33979 Ekfrid 4-14-RIVS			PERMIT: 6876	INIT CLASS: NPW	
OPERATOR: The Consumers' Gas Company Ltd.			TARGET: CAM	CUR STATUS: DH-ABD	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Underwater Gas Developers Ltd.			PERMIT:	1985-08-29	NORTH:		m	TOP:	98.0
RIG TYPE:	ROT	DEPTHS		SPUD:	1985-09-05	SOUTH:	545.7	m	BOT:	1106.0
CABLE TOP:		KB ELEV:	205.0	COMPTD:	1985-09-11	EAST:		m	TRAY:	6858- 6859
BOT:		LOGGER:	1102.5	OFFCNF:	1986-09-11	WEST:	228.6	m		
ROTRY TOP:	2.2	DRILLER:	1106.0	WRKOVR:		LAT:	42-44-00			
BOT:	1106.0	DEEP END:		ABNDND:	1985-09-12	LONG:	81-34-52			
DRLG FLD:	Brine	PLUG BK:								

INITIAL GAS RECORD		
INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD				
DIAM	WEIGHT	SET AT	HOW SET	RECOV
244	54.0	95.0	CEM	
178	25.0	504.9	CEM	

COMPLETION DATA	
GAS:	10 ³m³/d
OIL:	m³/d
SIP:	kPa
FORM:	
INTRVL:	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD		
INTERVAL	FLOW	DENSITY
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LOGGING RECORD		
INTERVAL	TYPE	COMPANY
95.0 – 1102.2	LATL	Schlumberger
95.0 – 1101.8	CNFD	"
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REMARKS

Deviation Survey ---
150 m - 3/4°

INITIAL WATER RECORD		
INTERVAL	STAT. LEV	TYPE
75.0 –		SUL
168.0 –		SUL
255.0 –		SUL
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–		

CORING RECORD			
INTERVAL	LOCATION	NO	mm
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–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	2.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	57.0		
	MARCELLUS			
	DUNDEE	69.0		
	COLUMBUS			
	LUCAS	106.0		
	AMHERSTBURG	151.6		
	SYLVANIA			
	BOIS BLANC	195.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	224.3		
	G SHALE	258.4		
	F SHALE	267.2		
	F SALT			
	E CARBONATE	313.8		
	D SALT/EQUIVALENT	333.3		
	C SHALE	335.2		
	B MARKER	344.3		
	B EQUIVALENT	349.6		
	B SALT			
	B ANHYDRITE	358.7		
	A2 CARBONATE	362.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	387.0		
	A1 CARBONATE	390.7		
	A1 SALT			
	A1 ANHYDRITE	409.0		
	GUELPH	411.0		
	ERAMOSA			
	GOAT ISLAND	429.8		
	GASPORT/WIARTON	465.4		
	DECEW			
	ROCHESTER	471.2		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	487.7		
	THOROLD			
	GRIMSBY			
	CABOT HEAD	489.2		
	MANITOULIN	517.1		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	525.9		
	BLUE MOUNTAIN - GEORG BAY	651.0		
	COLLINGWOOD			
	COBOURG	819.0		
	VERULAM	849.0		
	KIRKFIELD	904.4		
	COBOCONK	968.2		
	GULL RIVER	991.7		
	SHADOW LAKE	1075.2		
	CAMBRIAN	1076.4		
	PRECAMBRIAN	1084.4		

GEOLOGY BY: D. K. Parker

CTY: Middlesex	TWP: McGillivray	BLK:	TRAC: 3	LOT: 5	CON: XII
WELL NAME: PPC No. 7 McGillivray 3-5-XXII			PERMIT: 6812	INIT CLASS: NPW	
OPERATOR: Paladin Petroleum Corporation			TARGET: SAL	CUR STATUS: GS-ABD	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Rawlings Drilling Co. Ltd.			PERMIT:	1985-06-13	NORTH:		m	TOP:	41.0
RIG TYPE:	CAB	DEPTHS		SPUD:	1985-06-14	SOUTH:	110.0	m	BOT:	581.3
CABLE TOP:	1.2	KB ELEV:	205.5	COMPTD:	1985-07-29	EAST:	361.5	m	TRAY:	9060
BOT:	581.0	LOGGER:	580.0	OFFCNF:	1986-07-29	WEST:		m		
ROTRY TOP:		DRILLER:	581.0	WRKOVR:		LAT:	43-13-50			
BOT:		DEEP END:		ABNDND:	1985-07-29	LONG:	81-41-00			
DRLG FLD:	FRESH WATER	PLUG BK:								

INITIAL GAS RECORD		
INTERVAL	FLOW	SIP
565.0 –	SHOW	
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CASING AND TUBING RECORD				
DIAM	WEIGHT	SET AT	HOW SET	RECOV
340	80.6	42.6	SHO	42.6
219		129.8	SHO	129.8
178	36.0	286.5	CEM	6.5

COMPLETION DATA	
GAS:	10 ³m³/d
OIL:	m³/d
SIP:	kPa
FORM:	
INTRVL:	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD		
INTERVAL	FLOW	DENSITY
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–		
–		
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LOGGING RECORD		
INTERVAL	TYPE	COMPANY
245.0 – 579.3	CNFD	Schlumberger
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REMARKS

INITIAL WATER RECORD		
INTERVAL	STAT LEV	TYPE
45.0 –	30.0	FRE
91.0 –	27.0	SUL
228.0 –	30.0	SUL
–		
–		
–		

CORING RECORD			
INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	39.5		
	COLUMBUS			
	LUCAS	65.0		
	AMHERSTBURG	146.0		
	SYLVANIA			
	BOIS BLANC	210.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	227.0		
	G SHALE	269.3		
	F SHALE	275.2		
	F SALT			
	E CARBONATE	306.0		
	D SALT/EQUIVALENT	341.8		
	C SHALE	354.8		
	B MARKER	371.6		
	B EQUIVALENT			
	B SALT	378.5		
	B ANHYDRITE			
	A2 CARBONATE	455.8		
	A2 SALT	495.0		
SILURIAN	A2 ANHYDRITE	514.5		
	A1 CARBONATE	516.2		
	A1 SALT			
	A1 ANHYDRITE	551.2		
	GUELPH	559.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY Middlesex	TWP Mosa	BLK	TRAC 1-1	LOT 29	CON RIS
WELL NAME Sussex et al Mosa 1-1-29-RIS		PERMIT 6882		INIT CLASS NPW	
OPERATOR Sussex Exploration Ltd.		TARGET DEV		CUR STATUS DH-ABD	

DRILLING DATA		DATES	COORDINATES	SAMPLES
CONTRACTOR Circle A Drilling Inc		PERMIT 1985-09-16	NORTH m	TOP 60.0
RIG TYPE CAB	DEPTHS	SPUD 1985-09-30	SOUTH 65.0 m	BOT 151.0
CABLE TOP 0.8	KB ELEV 207.2	COMPTD 1985-10-08	EAST m	TRAY 386
BOT 151.0	LOGGER	OFFCNF 1986-10-08	WEST 65.0 m	
ROTRY TOP	DRILLER 151.0	WRKOVR	LAT 42-36-47	
BOT	DEEP END	ABNDND 1985-10-10	LONG 81-44-31	
DRLG FLD	PLUG BK			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	60.8	SHO	60.8
178	25.3	92.9	SHO	92.9

COMPLETION DATA

GAS 10 ³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
42.0 –		FRE
63.0 –		SUL
150.0 –		SUL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	60.0		
	MARCELLUS			
	DUNDEE	92.8		
	COLUMBUS	145.0		
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
SILURIAN	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Middlesex	TWP Mosa	BLK	TRAC 2-2	LOT 29	CON RIS
WELL NAME Sussex et al Mosa 2-2-29-RIS		PERMIT 6884		INIT CLASS NPW	
OPERATOR Sussex Exploration Ltd.		TARGET DEV		CUR STATUS OS	

DRILLING DATA		DATES	COORDINATES	SAMPLES
CONTRACTOR Circle A Drilling Inc.		PERMIT 1985-09-16	NORTH m	TOP 57.0
RIG TYPE CAB	DEPTHS	SPUD 1985-09-17	SOUTH 65.0 m	BOT 129.0
CABLE TOP 0.8	KB ELEV 207.6	COMPTD 1985-09-24	EAST 65.0 m	TRAY 390
BOT 129.0	LOGGER 129.0	OFFCNF 1986-09-24	WEST m	
ROTRY TOP	DRILLER 129.0	WRKOVR	LAT 42-36-41	
BOT	DEEP END	ABNDND 1985-10-10	LONG 81-49-51	
DRLG FLD Water	PLUG BK 125.0			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	35.7	56.9	SHO	
178	25.3	76.1	SHO	
60	6.8	122.8	HAN	

COMPLETION DATA

GAS 10 ³m³/d
OIL m³/d
SIP kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
79.0 – 82.0	Show	
103.0 – 107.5	Show	
113.5 – 120.0	Show	
121.8 – 126.0	Show	
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 129.0	GRNL	Computalog
76.0 – 129.0	DENL	"
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
68.0 –		FRE
128.0 –		SUL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.8		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	54.2		
	MARCELLUS			
	DUNDEE	74.4		
	COLUMBUS	122.7		
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
SILURIAN	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY: Middlesex TWP: West Williams BLK: TRAC: 1 LOT: 22 CON: VII
WELL NAME: Martin #1 West Williams 1-22-VII PERMIT: 6674 INIT CLASS: STR
OPERATOR: Amos C. Martin Limited TARGET: DEV CUR STATUS:

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Eagle Drilling Services Inc.			PERMIT:	1985-07-19	NORTH:		m	TOP:	0.9
RIG TYPE:	ROT	DEPTHS		SPUD:	1985-07-22	SOUTH:	30.0	m	BOT:	37.4
CABLE TOP:		KB ELEV:	193.0	COMPTD:	1985-07-22	EAST:		m	TRAY:	242
BOT:		LOGGER:		OFFCNF:	1986-07-22	WEST:	160.0	m		
ROTRY TOP:	1.0	DRILLER:	37.4	WRKOVR:		LAT:	43-04-36			
BOT:	37.4	DEEP END:		ABNDND:	1985-07-22	LONG:	81-47-42			
DRLG FLD:		PLUG BK:								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
178	29.7	8.8	SHO	8.8

COMPLETION DATA

GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
0.9 – 37.4	PBL	884	N
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM			
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON	1.0		
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY: Norfolk TWP: Charlotteville BLK: TRAC: 4-5 LOT: 2 CON: VI
WELL NAME: Metalore #73 Charlotteville 4-5-2-VI PERMIT: 6736 INIT CLASS: NPW
OPERATOR: Metalore Resources Limited TARGET: CLI CUR STATUS: GP

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Elgin Mitchell & Sons			PERMIT:	1985-04-26	NORTH:		m	TOP:	71.0
RIG TYPE:	CAB	DEPTHS		SPUD:		SOUTH:	681.8	m	BOT:	418.8
CABLE TOP:	0.5	KB ELEV:		COMPTD:	1985-06-11	EAST:		m	TRAY:	8121
BOT:	419.0	LOGGER:		OFFCNF:	1986-06-11	WEST:	163.7	m		
ROTRY TOP:		DRILLER:	419.0	WRKOVR:		LAT:	42-44-29			
BOT:		DEEP END:		ABNDND:		LONG:	80-27-34			
DRLG FLD:		PLUG BK:								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV

COMPLETION DATA

GAS: $10^3 m^3/d$
OIL: m^3/d
SIP: kPa
FORM:
INTRVL: m
m
m

PERF ☐ OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	[illegible]
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC	109.0		
	SPRINGVALE			
	ORISKANY	146.0		
SILURIAN	BASS ISLANDS	177.0		
	G SHALE	189.0		
	F SHALE	195.0		
	F SALT			
	E CARBONATE	235.0		
	D SALT/EQUIVALENT			
	C SHALE	259.0		
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE	268.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	289.9		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	294.7		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	368.0		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	378.0		
	THOROLD	381.0		
	GRIMSBY	384.7		
	CABOT HEAD	392.6		
	MANITOULIN			
	WHIRLPOOL	415.6		
ORDOVICIAN	QUEENSTON	417.6		
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: D. K. Parker

CTY	Norfolk	TWP	Charlotteville	BLK		TRAC		LOT 4	CON VII
WELL NAME	Bayview #10 Charlotteville 4-4-VII					PERMIT 6843		INIT CLASS NPW	
OPERATOR	Bayview Explorations Ltd.					TARGET CLI		CUR STATUS GP	

DRILLING DATA

CONTRACTOR	Murray Rose Drilling		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1	KB ELEV	230.9
BOT	387.0	LOGGER	
ROTRY TOP		DRILLER	387.0
BOT		DEEP END	
DRLG FLD		PLUG BK	385.6

DATES		COORDINATES			SAMPLES	
PERMIT	1985-08-08	NORTH		m	TOP	64.6
SPUD	1985-07-18	SOUTH	560.7	m	BOT	385.6
COMPTD	1985-08-29	EAST		m	TRAY	8700
OFFCNF	1986-08-29	WEST	118.9	m		
WRKOVR		LAT				
ABNDND		LONG				

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
371.6 –		
373.4 – 374.3	0.085	
375.5 – 378.0	0.170	3447
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	63.3	64.9	SHO	64.9
219	35.7	71.6	CEM	
114	14.1	371.6	CEM	
19		385.6		

COMPLETION DATA

GAS	10.623	$10^3 m^3/d$
OIL		m^3/d
SIP	3447	kPa
FORM		
INTRVL	373.4	m
		m
		m
PERF ☐		OPEN HOLE ☒

LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

Rochester pick unreliable due to similarity to overlying Decew.

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
69.8 –	22.9	SUL
155.5 –	25.9	SUL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.0		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	64.6		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	94.2		
	SYLVANIA			
	BOIS BLANC	131.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	150.9		
	G SHALE	171.0		
	F SHALE	180.7		
	F SALT			
	E CARBONATE	218.0		
	D SALT/EQUIVALENT			
	C SHALE	240.5		
	B MARKER	247.5		
	B EQUIVALENT	253.3		
	B SALT			
	B ANHYDRITE	261.0		
	A2 CARBONATE	265.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	275.0		
	A1 CARBONATE	277.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	280.7		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	347.5		
	ROCHESTER	357.0		
	IRONDEQUOIT	367.0		
	REYNALES/FOSSIL HILL	369.0		
	THOROLD	370.6		
	GRIMSBY	376.0		
	CABOT HEAD	379.0		
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: T. R. Carter

CTY	Norfolk	TWP	Charlotteville	BLK		TRAC 6		LOT 5	CON IV
WELL NAME	Metalore #74 Charlotteville 6-5-IV					PERMIT 6788		INIT CLASS DEV	
OPERATOR	Metalore Resources Limited					TARGET CLI		CUR STATUS GP	

DRILLING DATA

CONTRACTOR	Elgin Mitchell & Sons		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	0.3	KB ELEV	228.6
BOT	397.8	LOGGER	
ROTRY TOP		DRILLER	397.8
BOT		DEEP END	
DRLG FLD		PLUG BK	

DATES		COORDINATES			SAMPLES	
PERMIT	1985-05-23	NORTH		m	TOP	83.2
SPUD		SOUTH	896.5	m	BOT	373.4
COMPTD	1985-08-30	EAST	193.0	m	TRAY	2996
OFFCNF	1985-09-30	WEST		m		
WRKOVR		LAT	42-43-29			
ABNDND		LONG	80-25-28			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV

COMPLETION DATA

GAS		$10^3 m^3/d$
OIL		m^3/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	83.2		
	AMHERSTBURG	112.8		
	SYLVANIA			
	BOIS BLANC	137.2		
	SPRINGVALE			
	ORISKANY	161.5		
SILURIAN	BASS ISLANDS	173.7		
	G SHALE	189.0		
	F SHALE	198.1		
	F SALT			
	E CARBONATE	231.7		
	D SALT/EQUIVALENT			
	C SHALE	259.1		
	B MARKER	268.3		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE	274.7		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	286.5		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	292.6		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	371.9		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: D. K. Parker

CTY Norfolk TWP Houghton BLK TRAC 1 LOT 8 CON WNR
WELL NAME Hemlock #10 Houghton 1-8-WNR PERMIT 6667 INIT CLASS NPW
OPERATOR Hemlock Explorations Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	1984-12-24	NORTH	227.5 m	TOP	84.0
RIG TYPE	CAB	DEPTHS		SPUD	1985-01-15	SOUTH	m	BOT	419.4
CABLE TOP	1.3	KB ELEV	203.2	COMPTD	1985-02-15	EAST	m	TRAY	1092
BOT	420.3	LOGGER		OFFCNF	1986-02-15	WEST	138.7 m		
ROTRY TOP		DRILLER	420.3	WRKOVR		LAT	42-40-04		
BOT		DEEP END		ABNDND		LONG	80-42-27		
DRLG FLD		PLUG BK	419.4						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
415.1 – 415.7	2.210	
415.7 – 416.7	2.720	
417.6 – 418.2	3.145	
418.2 – 418.8	4.165	
418.8 – 419.1	4.731	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	62.5	84.4	SHO	84.4
219	35.7	88.4	CEM	
114	14.1	410.0	CEM	

COMPLETION DATA

GAS 4.731 $10^3 m^3/d$
OIL m^3/d
SIP 4413 kPa
FORM Grimsby
INTRVL 415.1-419.1 m
m
m
PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
86.3 –	6.1	SUL
154.8 –	3.7	SUL
345.0 –	2.4	SUL
–		
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	98.0		
	AMHERSTBURG	124.0		
	SYLVANIA			
	BOIS BLANC	149.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	181.0		
	G SHALE	202.7		
	F SHALE	210.0		
	F SALT			
	E CARBONATE	239.2		
	D SALT/EQUIVALENT	269.5		
	C SHALE	269.9		
	B MARKER	285.6		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	294.7		
	A2 CARBONATE	295.8		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	311.0		
	A1 CARBONATE	313.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	318.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	394.5		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	411.0		
	THOROLD	411.2		
	GRIMSBY	415.1		
	CABOT HEAD	419.1		
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY
D. K. Parker

CTY Norfolk TWP Houghton BLK TRAC 2 LOT 14 CON I
WELL NAME Beech Lane #3 Houghton 2-14-I PERMIT 6731 INIT CLASS DEV
OPERATOR Beech Lane Explorations TARGET CLI CUR STATUS GP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	1985-04-11	NORTH	m	TOP	87.0
RIG TYPE	CAB	DEPTHS		SPUD	1985-04-04	SOUTH	142.0 m	BOT	422.1
CABLE TOP	1.3	KB ELEV	215.2	COMPTD	1985-05-06	EAST	m	TRAY	7331
BOT	422.1	LOGGER		OFFCNF	1985-06-06	WEST	141.2 m		
ROTRY TOP		DRILLER	422.1	WRKOVR		LAT	42-41-45		
BOT		DEEP END		ABNDND		LONG	80-40-35		
DRLG FLD		PLUG BK	419.1						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
416.1 –	.99	
417.4 –	3.09	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	62.5	86.9	SHO	
219	35.7	90.8	CEM	
114	14.1	415.7	CEM	

COMPLETION DATA

GAS 2.8 $10^3 m^3/d$
OIL m^3/d
SIP 3964 kPa
FORM
INTRVL m
m
m
PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
89.6 –	18.7	SUL
103.3 –	14.3	SUL
326.0 –	9.5	SUL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	86.8		
	COLUMBUS			
	LUCAS	93.0		
	AMHERSTBURG	121.0		
	SYLVANIA			
	BOIS BLANC	143.3		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	186.2		
	G SHALE	203.6		
	F SHALE	212.1		
	F SALT			
	E CARBONATE	242.6		
	D SALT/EQUIVALENT			
	C SHALE	271.2		
	B MARKER	285.0		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	296.4		
	A2 CARBONATE	300.4		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	314.2		
	A1 CARBONATE	315.8		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	321.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	394.4		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	410.0		
	THOROLD	413.0		
	GRIMSBY	414.5		
	CABOT HEAD	418.8		
	MANITOULIN	422.1		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY
D. K. Parker

CTY Norfolk TWP Houghton BLK TRAC 7 LOT 16 CON II
WELL NAME Beech Lane #2 Houghton 7-16-II PERMIT 6713 INIT CLASS DEV
OPERATOR Beech Lane Explorations TARGET CLI CUR STATUS DH-ABD

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Murray Rose Drilling			PERMIT	1985-03-04	NORTH		m	TOP	81.0
RIG TYPE	CAB	DEPTHS		SPUD		SOUTH	265.3	m	BOT	415.7
CABLE TOP		KB ELEV		COMPTD	1985-03-22	EAST	167.5	m	TRAY	2316
BOT	415.7	LOGGER		OFFCNF	1985-04-22	WEST		m		
ROTRY TOP		DRILLER	415.7	WRKOVR		LAT	42-42-23			
BOT		DEEP END		ABNDND		LONG	80-40-19			
DRLG FLD		PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
—			
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM			
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	81.0		
	COLUMBUS			
	LUCAS	99.0		
	AMHERSTBURG	115.0		
	SYLVANIA			
	BOIS BLANC	140.0		
	SPRINGVALE			
	ORISKANY	179.0		
SILURIAN	BASS ISLANDS	180.6		
	G SHALE	199.0		
	F SHALE	207.0		
	F SALT			
	E CARBONATE	237.0		
	D SALT/EQUIVALENT	266.0		
	C SHALE	267.0		
	B MARKER	274.0		
	B EQUIVALENT	285.0		
	B SALT			
	B ANHYDRITE	292.7		
	A2 CARBONATE	295.0		
	A2 SALT			

SILURIAN	A2 ANHYDRITE	310.0		
	A1 CARBONATE	312.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	317.0		
	ERAMOSA			
	GOAT ISLAND	327.0		
	GASPORT/WAARTON			
	DECEW	389.8		
	ROCHESTER	391.3		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	405.0		
	THOROLD	409.0		
	GRIMSBY	410.9		
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Norfolk TWP Middleton BLK – TRAC 5 LOT 25 CON II STR
WELL NAME Tulip, Middleton 5-25-II STR PERMIT 6911 INIT CLASS DEV
OPERATOR Fernlea Flowers Limited TARGET CLI CUR STATUS DH-ABD

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	1985-10-24	NORTH	889.6	m	TOP	61.0
RIG TYPE	CAB	DEPTHS		SPUD	1985-10-24	SOUTH		m	BOT	370.9
CABLE TOP	0.9	KB ELEV	233.9	COMPTD	1985-11-19	EAST		m	TRAY	6495
BOT	370.9	LOGGER	–	OFFCNF	1985-12-19	WEST	134.3	m		
ROTRY TOP	–	DRILLER	370.9	WRKOVR	–	LAT	42-49-12			
BOT	–	DEEP END	–	ABNDND	1985-11-26	LONG	80-36-3			
DRLG FLD	–	PLUG BK	–							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.3	61.3	SHO	61.3
219	35.7	65.8	BAR	65.8
114	14.1	358.1	BHP	358.1

COMPLETION DATA

GAS	10 ³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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REMARKS

Detrital dolomite at top of Lucas in Columbus interval 78.0-82.5. Trace detrital quartz.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
60.7 –	30.5	SUL
63.4 –	15.2	SUL
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	60.4		
	COLUMBUS			
	LUCAS	78.0		
	AMHERSTBURG	90.0		
	SYLVANIA			
	BOIS BLANC	133.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	141.5		
	G SHALE	160.0		
	F SHALE	164.0		
	F SALT	–		
	E CARBONATE	193.0		
	D SALT/EQUIVALENT	–		
	C SHALE	216.0		
	B MARKER	233.0		
	B EQUIVALENT	236.5		
	B SALT	–		
	B ANHYDRITE	242.0		
	A2 CARBONATE	244.0		
	A2 SALT –	–		

SILURIAN	A2 ANHYDRITE	257.0		
	A1 CARBONATE	258.0		
	A1 SALT	–		
	A1 ANHYDRITE	–		
	GUELPH	262.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WAARTON			
	DECEW	339.0		
	ROCHESTER	341.0		
	IRONDEQUOIT	358.0		
	REYNALES/FOSSIL HILL	360.0		
	THOROLD			
	GRIMSBY	362.0		
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG. BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T. R. Carter

CTY Norfolk	TWP Middleton	BLK	TRAC 6	LOT 26	CON II STR
WELL NAME Impatiens Middleton 6-26-II STR			PERMIT 6786	INIT CLASS DEV	
OPERATOR Fernlea Flowers Limited			TARGET CLI	CUR STATUS GP	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	1985-05-22	NORTH	578.4	m	TOP	62.5
RIG TYPE	CAB	DEPTHS		SPUD		SOUTH		m	BOT	369.7
CABLE TOP	1.3	KB ELEV	234.2	COMPTD	1985-06-21	EAST	112.4	m	TRAY	7295
BOT	369.7	LOGGER		OFFCNF	1985-07-21	WEST		m		
ROTRY TOP		DRILLER	369.7	WRKOVR		LAT	42-49-06			
BOT		DEEPEND		ABNDND		LONG	80-35-45			
DRLG FLD		PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV

COMPLETION DATA

GAS		10 ³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m
PERF ☐		OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
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–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS	64.0		
	AMHERSTBURG	86.6		
	SYLVANIA			
	BOIS BLANC	119.6		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	141.7		
	G SHALE	151.8		
	F SHALE	158.2		
	F SALT			
	E CARBONATE	188.4		
	D SALT/EQUIVALENT			
	C SHALE	214.9		
	B MARKER	217.9		
	B EQUIVALENT	230.7		
	B SALT			
	B ANHYDRITE	238.0		
	A2 CARBONATE	242.3		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	252.8		
	A1 CARBONATE	253.9		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	260.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	338.9		
	ROCHESTER	341.4		
	IRONDEQUOIT	357.8		
	REYNALES/FOSSIL HILL	359.1		
	THOROLD	362.4		
	GRIMSBY	364.2		
	CABOT HEAD	366.7		
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Norfolk	TWP Middleton	BLK	TRAC 4	LOT 26	CON II STR
WELL NAME Ivy Geranium, Middleton 4-26-II STR			PERMIT 6889	INIT CLASS DEV	
OPERATOR Fernlea Flowers Limited			TARGET CLI	CUR STATUS GP	

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Murray Rose Drilling Inc.			PERMIT	1985-09-19	NORTH		m	TOP	59.1
RIG TYPE	CAB	DEPTHS		SPUD	1985-09-17	SOUTH	977.7	m	BOT	362.7
CABLE TOP	0.9	KB ELEV	233.5	COMPTD	1985-10-11	EAST	204.2	m	TRAY	6103
BOT	362.7	LOGGER		OFFCNF	1985-11-10	WEST		m		
ROTRY TOP		DRILLER	362.2	WRKOVR		LAT	42-49-22			
BOT		DEEPEND		ABNDND		LONG	80-35-52			
DRLG FLD		PLUG BK	361.0							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
360.1 –	0.680	
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	60.3	59.1	SHO	59.1
219	35.7	64.6	CEM	
114	14.1	358.1	PAC	

COMPLETION DATA

GAS	2.266	10 ³m³/d
OIL		m³/d
SIP	4206	kPa
FORM	Thorold/Grimsby	
INTRVL	360.3	m
		m
		m
PERF ☐		OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
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–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
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–		
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INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
59.7 –	15.2	SUL
286.5 –	8.2	SUL
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.9		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	59.1		
	COLUMBUS			
	LUCAS	74.0		
	AMHERSTBURG	84.4		
	SYLVANIA			
	BOIS BLANC	124.4		
	SPRINGVALE	137.6		
	ORISKANY			
SILURIAN	BASS ISLANDS	138.0		
	G SHALE	154.0		
	F SHALE	157.0		
	F SALT			
	E CARBONATE	191.0		
	D SALT/EQUIVALENT			
	C SHALE	215.5		
	B MARKER	226.0		
	B EQUIVALENT	230.1		
	B SALT			
	B ANHYDRITE	238.0		
	A2 CARBONATE	242.5		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	251.0		
	A1 CARBONATE	252.7		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	259.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	338.0		
	ROCHESTER	339.0		
	IRONDEQUOIT	350.5		
	REYNALES/FOSSIL HILL	357.2		
	THOROLD	360.2		
	GRIMSBY	362.1		
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T.R. Carter

CTY	Norfolk	TWP	North Walsingham	BLK	-	TRAC	8	LOT	15	CON	VII
WELL NAME	FM NO. 8 North Walsingham 8-15-VII			PERMIT	6938	INIT CLASS	NPW				
OPERATOR	Saul, Francis K.			TARGET	CLI	CUR STATUS	GP				

DRILLING DATA			
CONTRACTOR	Murray Rose Drilling Inc.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.3	KB ELEV	203.3
BOT	421.2	LOGGER	-
ROTRY TOP	-	DRILLER	421.2
BOT	-	DEEP END	-
DRLG FLD	-	PLUG BK	391.4

DATES		COORDINATES			SAMPLES	
PERMIT	85-11-25	NORTH	186.0	m	TOP	-
SPUD	85-11-11	SOUTH	-	m	BOT	-
COMPTD	85-12-18	EAST	-	m	TRAY	-
OFFCNF	86-12-18	WEST	190.1	m		
WRKOVR	-	LAT	42-41-35			
ABNDND	-	LONG	80-31-28			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
384.7 - -	-	-
387.4 - 388.0	.011	-
389.2 - 389.5	.201	4413
392.3 - 392.6	.198	-
-		
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	62.5	72.8	SHO	72.8
219	35.7	79.6	CEM	0
114	14.1	388.9	CEM	0

COMPLETION DATA

GAS	.201	10³m³/d
OIL	-	m³/d
SIP	4413	kPa
FORM	Grimsby	
INTRVL	389.2 - 389.5	m
		m
		m
PERF ( )	OPEN HOLE [X]	

REMARKS

Only operator picks are available.

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
-		
-		
-		
-		
-		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
-		
-		
-		
-		
-		
-		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
155.4 - -	25.9	SUL
299.3 - -	18.3	BRA
-		
-		
-		
-		

CORING RECORD

INTERVAL	LOCATION	NO	mm
-			
-			
-			
-			
-			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	295.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	364.8		
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL	381.3		
	THOROLD	384.7		
	GRIMSBY	389.2		
	CABOT HEAD	393.2		
	MANITOULIN			
	WHIRLPOOL	417.3		
ORDOVICIAN	QUEENSTON	420.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY Debra K. Parker

CTY	Norfolk	TWP	N. Walsingham	BLK	-	TRAC	8	LOT	18	CON	VIII
WELL NAME	F&M #9, N. Walsingham 8-18-VIII			PERMIT	6961	INIT CLASS	DEV				
OPERATOR	F&M Resources			TARGET	CLI	CUR STATUS	GP				

DRILLING DATA			
CONTRACTOR	Murray Rose Drilling Inc.		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	1.3	KB ELEV	211.8
BOT	395.0	LOGGER	-
ROTRY TOP	-	DRILLER	395.0
BOT	-	DEEP END	-
DRLG FLD	-	PLUG BK	389.5

DATES		COORDINATES			SAMPLES	
PERMIT	85-12-31	NORTH	113.2	m	TOP	72.0
SPUD	85-11-21	SOUTH	-	m	BOT	395.0
COMPTD	85-12-30	EAST	-	m	TRAY	8385
OFFCNF	86-01-29	WEST	256.6	m		
WRKOVR	-	LAT	42-42-49			
ABNDND	-	LONG	80-30-29			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
385.3 - 385.6	-	-
385.6 - 385.9	-	-
385.9 - 386.5	-	-
-		
-		
-		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	62.5	71.9	SHO	71.9
219	35.9	76.5	CEM	0
114	14.1	385.9	CEM	-
19	-	389.5	-	-

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL	385.3 - 386.5	m
		m
		m
PERF ☐	OPEN HOLE ☐	

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
-		
-		
-		
-		
-		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
-		
-		
-		
-		
-		
-		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
75.3 - -	23.2	SUL
133.5 - -	18.3	SUL
300.5 - -	1.5	BLK
-		
-		
-		

CORING RECORD

INTERVAL	LOCATION	NO	mm
-			
-			
-			
-			
-			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	72.0		
	COLUMBUS			
	LUCAS	95.1		
	AMHERSTBURG	111.6		
	SYLVANIA			
	BOIS BLANC	154.0		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	167.6		
	G SHALE	184.7		
	F SHALE	192.9		
	F SALT			
	E CARBONATE	230.0		
	D SALT/EQUIVALENT			
	C SHALE	253.9		
	B MARKER	265.5		
	B EQUIVALENT	267.5		
	B SALT			
	B ANHYDRITE	273.5		
	A2 CARBONATE	277.4		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	290.0		
	A1 CARBONATE	292.3		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	295.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	364.0		
	IRONDEQUOIT	381.3		
	REYNALES/FOSSIL HILL	383.2		
	THOROLD	385.0		
	GRIMSBY	389.8		
	CABOT HEAD			
	MANITOULIN			
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON			
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY Norfolk	TWP South Walsingham	BLK	TRAC 5	LOT 14	CON II
WELL NAME South Eagle #1 S. Walsingham 5-14-II			PERMIT 6662	INIT CLASS NPW	
OPERATOR W.T. Chatham			TARGET CLI	CUR STATUS GP	

DRILLING DATA		DATES	COORDINATES	SAMPLES
CONTRACTOR Elgin Mitchell & Sons		PERMIT 1984-12-18	NORTH 462.1 m	TOP 98.0
RIG TYPE CAB & ROT	DEPTHS	SPUD 1984-12-06	SOUTH m	BOT 447.1
CABLE TOP	KB ELEV 199.5	COMPTD 1985-01-02	EAST m	TRAY 1164
BOT	LOGGER 446.2	OFFCNF 1986-01-02	WEST 172.1 m	
ROTRY TOP	DRILLER 447.0	WRKOVR	LAT 42-38-32	
BOT	DEEP END	ABNDND	LONG 80-29-04	
DRLG FLD DRY	PLUG BK 408.4			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
402.6 – 403.2	0.26	4344
404.4 – 405.0	0.99	
405.0 – 405.9	1.21	
406.9 – 407.5	7.85	
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219	41.7	96.3	CEM	
114	14.4	401.7	BHP	

COMPLETION DATA

GAS	10³m³/d
OIL	m³/d
SIP	kPa
FORM	
INTRVL	m
	m
	m
PERF ☐	OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 443.8	GRNL	Computalog
401.7 – 445.6	DENL	"
–		
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REMARKS

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
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–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	96.6		
	COLUMBUS			
	LUCAS	116.7		
	AMHERSTBURG	142.0		
	SYLVANIA			
	BOIS BLANC	154.2		
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS	193.2		
	G SHALE	201.2		
	F SHALE	207.6		
	F SALT			
	E CARBONATE	236.2		
	D SALT/EQUIVALENT	267.3		
	C SHALE	268.5		
	B MARKER	277.4		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	290.8		
	A2 CARBONATE	296.0		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	311.2		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW			
	ROCHESTER	378.6		
	IRONDEQUOIT	399.3		
	REYNALES/FOSSIL HILL			
	THOROLD	401.4		
	GRIMSBY	402.9		
	CABOT HEAD	412.1		
	MANITOULIN	436.2		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	439.5		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY D. K. Parker

CTY Norfolk	TWP S. Walsingham	BLK	TRAC I	LOT 20	CON II
WELL NAME Dewey Oil, S. Walsingham 1-20-II			PERMIT 6685	INIT CLASS NPW	
OPERATOR W.T. Chatham Associates Ltd.			TARGET CLI	CUR STATUS GP	

DRILLING DATA		DATES	COORDINATES	SAMPLES
CONTRACTOR Eagle Drilling Services Inc.		PERMIT 1985-03-11	NORTH m	TOP 93.0
RIG TYPE ROT	DEPTHS	SPUD 1985-05-07	SOUTH 165.40 m	BOT 437.7
CABLE TOP	KB ELEV 205.4	COMPTD 1985-05-25	EAST m	TRAY 1625
BOT	LOGGER 438.3	OFFCNF 1986-05-25	WEST 144.96 m	
ROTRY TOP 1.2	DRILLER 437.7	WRKOVR	LAT 42-39-54	
BOT 437.7	DEEP END	ABNDND	LONG 80-26-59	
DRLG FLD Water	PLUG BK 415.8			

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
– 399.3	0.3	2930
399.3 – 399.9	0.125	
401.1 – 402.3	0.051	
402.3 – 403.3	0.028	
403.3 – 404.5	0.150	
404.5 – 405.4	0.125	

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219.1	41.67	91.7	CEM	
114.3	14.14	359.7	BHP	359.7
114.3	14.14	415.8	CEM	

COMPLETION DATA

GAS 9.7	10³m³/d
OIL	m³/d
SIP 4033	kPa
FORM Thorold/Grimsby	
INTRVL 398.7-403.6	m
	m
	m
PERF ☒	OPEN HOLE ☐

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 438.3	GRNL	Computalog
365.8 – 415.7	CCL	"
91.4 – 437.4	DENL	"
– 414.5	CBND	"
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–		

REMARKS

Interbed of Springvale sandstone within Bois Blanc at 168-174 m. Note: in treatment & stimulation of this well, a total of 45,500 kg of sand was used.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
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CORING RECORD

INTERVAL	LOCATION	NO	mm
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–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	1.2		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	87.2		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	133.5		
	SYLVANIA			
	BOIS BLANC	158.5		
	SPRINGVALE	168.0		
	ORISKANY			
SILURIAN	BASS ISLANDS	181.5		
	G SHALE	199.5		
	F SHALE	206.2		
	F SALT			
	E CARBONATE	244.7		
	D SALT/EQUIVALENT			
	C SHALE	268.2		
	B MARKER	276.1		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	289.9		
	A2 CARBONATE	293.2		
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	302.8		
	A1 SALT			
	A1 ANHYDRITE	308.9		
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	375.2		
	ROCHESTER	381.9		
	IRONDEQUOIT	395.0		
	REYNALES/FOSSIL HILL	396.2		
	THOROLD	398.1		
	GRIMSBY	402.3		
	CABOT HEAD	416.7		
	MANITOULIN	432.5		
	WHIRLPOOL			
ORDOVICIAN	QUEENSTON	435.1		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY T.R. Carter

CTY Norfolk TWP Woodhouse BLK - TRAC 2 LOT 6 CON III

WELL NAME Dominion 684, Woodhouse 2-6-III PERMIT 6920 INIT CLASS DPT

OPERATOR W.T. Chatham Associates Ltd. TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR	Elgin Mitchell & Sons		
RIG TYPE	CAB	DEPTHS	
CABLE TOP	336.5	KB ELEV	217.6
BOT	350.2	LOGGER	348.7
ROTRY TOP	-	DRILLER	350.2
BOT	-	DEEP END	348.7
DRLG FLD	-	PLUG BK	320.7

DATES

PERMIT	85-11-07
SPUD	85-11-28
COMPTD	85-12-03
OFFCNF	86-12-03
WRKOVR	-
ABNDND	-

COORDINATES

NORTH	-	m
SOUTH	320.9	m
EAST	19.4	m
WEST	-	m
LAT	42-48-47	
LONG	80-15-12	

SAMPLES

TOP	336.5
BOT	349.0
TRAY	1793

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
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CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
114	14.1	323.7	CEM	0

COMPLETION DATA

GAS	2.4	$10^3 m^3/d$
OIL	-	m^3/d
SIP	1517	kPa
FORM	Thorold/Grimsby	
INTRVL	309.7 - 316.1	m
		m
		m

PERF ☒ OPEN HOLE ☐

REMARKS

Deepening of gas produc
no samples above 336.5

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
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LOGGING RECORD

INTERVAL	TYPE	COMPANY
242.3 – 320.0	CMPL	COM
274.3 – 345.6	GRL	"
274.3 – 348.1	NEUT	"
336.5 – 348.1	DENL	"
1.3 – 294.6	CBND	"
306.0 – 325.5	GRDL	"
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.6		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			
SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH			
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WARTON			
	DECEW			
	ROCHESTER			
	IRONDEQUOIT			
	REYNALES/FOSSIL HILL			
	THOROLD			
	GRIMSBY			
	CABOT HEAD	336.5		
	MANITOULIN	341.7		
	WHIRLPOOL	343.0		
ORDOVICIAN	QUEENSTON	345.6		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY T. R. Carter

CTY Norfolk TWP Woodhouse BLK TRAC 6 LOT 8 CON III

WELL NAME Chatham II Woodhouse 6-8-III PERMIT 6694 INIT CLASS NPW

OPERATOR Chatham W.T. TARGET CLI CUR STATUS GP

DRILLING DATA

CONTRACTOR	Elgin Mitchell & Sons		
RIG TYPE	ROT	DEPTHS	
CABLE TOP		KB ELEV	210.4
BOT		LOGGER	344.4
ROTRY TOP	0.3	DRILLER	345.9
BOT	345.9	DEEP END	
DRLG FLD		PLUG BK	318.8

DATES

PERMIT	1985-03-13
SPUD	1985-02-25
COMPTD	1985-04-16
OFFCNF	1986-04-16
WRKOVR	
ABNDND	

COORDINATES

NORTH	468.8	m
SOUTH		m
EAST		m
WEST	419.0	m
LAT	42-48-38	
LONG	80-14-18	

SAMPLES

TOP	21.0
BOT	345.9
TRAY	5703

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
303.0 – 303.6	.108	1310
304.2 – 304.8	.004	
306.3 – 310.0	.480	
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219.1	41.7	29.3	CEM	
114.3	14.4	302.4	CEM	

COMPLETION DATA

GAS	3.77	$10^3 m^3/d$
OIL		m^3/d
SIP	1516.9	kPa
FORM	Rey-Thorold-Grimsby	
INTRVL	303.0-310.0	m
		m
		m

PERF ☒ OPEN HOLE ☐

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
259.7 – 317.9	CCL	Computalog
301.8 – 343.5	DENL	"
.3 – 342.3	GRNL	"
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–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	22.6		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	36.9		
	SYLVANIA			
	BOIS BLANC	45.7		
	SPRINGVALE	63.1		
	ORISKANY			
SILURIAN	BASS ISLANDS	68.6		
	G SHALE	89.9		
	F SHALE	97.7		
	F SALT			
	E CARBONATE	126.3		
	D SALT/EQUIVALENT			
	C SHALE	157.6		
	B MARKER	162.2		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE	175.6		
	A2 SALT			
SILURIAN	A2 ANHYDRITE	182.0		
	A1 CARBONATE	183.3		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	192.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WARTON			
	DECEW			
	ROCHESTER	282.9		
	IRONDEQUOIT	300.9		
	REYNALES/FOSSIL HILL	302.1		
	THOROLD	304.2		
	GRIMSBY	306.0		
	CABOT HEAD	313.3		
	MANITOULIN	336.8		
	WHIRLPOOL	338.3		
ORDOVICIAN	QUEENSTON	340.8		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY D. K. Parker

CTY Norfolk TWP Woodhouse BLK TRAC 7 LOT 8 CON III
WELL NAME Chatham 12 Woodhouse 7-8 III PERMIT 6695 INIT CLASS NPW
OPERATOR Chatham W.T. TARGET CLI CUR STATUS GP

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Elgin Mitchell & Sons			PERMIT	1985-03-13	NORTH	220.0	m	TOP	28.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-02-25	SOUTH		m	BOT	344.1
CABLE TOP		KB ELEV	212.4	COMPTD	1985-04-03	EAST		m	TRAY	6801
BOT		LOGGER	347.8	OFFCNF	1986-04-03	WEST	558.9	m		
ROTRY TOP	0.5	DRILLER	347.8	WRKOVR		LAT	42-48-30			
BOT	347.8	DEEP END		ABNDND		LONG	80-14-20			
DRLG FLD		PLUG BK								

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
307.9 – 308.5	.012	1103.2
309.5 – 310.3	.084	
310.9 – 312.7	.103	
340.5 – 342.0	.019	
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219.1	41.7	36.0	CEM	
114.3	14.4	307.2	CEM	

COMPLETION DATA

GAS		10³m³/d
OIL		m³/d
SIP		kPa
FORM		
INTRVL		m
		m
		m

PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
– 345.6	GRNL	Computalog
307.2 – 347.5	DENL	"
–		
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
73.2 –		SUL
213.4 –		SUL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.5		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	28.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	42.2		
	SYLVANIA			
	BOIS BLANC	54.6		
	SPRINGVALE	73.8		
	ORISKANY			
SILURIAN	BASS ISLANDS	79.2		
	G SHALE	95.1		
	F SHALE	101.5		
	F SALT			
	E CARBONATE	130.9		
	D SALT/EQUIVALENT	160.6		
	C SHALE	161.8		
	B MARKER	168.2		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	181.7		
	A2 CARBONATE	183.3		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	192.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	197.8		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	283.5		
	ROCHESTER	287.1		
	IRONDEQUOIT	302.7		
	REYNALES/FOSSIL HILL	303.6		
	THOROLD	306.3		
	GRIMSBY	310.3		
	CABOT HEAD	314.6		
	MANITOULIN	336.8		
	WHIRLPOOL	340.5		
ORDOVICIAN	QUEENSTON	342.0		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: D. K. Parker

CTY Norfolk TWP Woodhouse BLK TRAC 3 LOT 9 CON II
WELL NAME Chatham 13 Woodhouse 3-9-II PERMIT 6696 INIT CLASS NPW
OPERATOR Chatham W.T. TARGET CLI CUR STATUS GP

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR	Elgin Mitchell & Sons			PERMIT	1985-03-13	NORTH		m	TOP	18.0
RIG TYPE	ROT	DEPTHS		SPUD	1985-02-28	SOUTH	563.8	m	BOT	341.4
CABLE TOP		KB ELEV	200.7	COMPTD	1985-04-24	EAST	127.6	m	TRAY	6505
BOT		LOGGER	339.2	OFFCNF	1986-04-24	WEST		m		
ROTRY TOP	0.3	DRILLER	341.4	WRKOVR		LAT	42-48-09			
BOT	341.4	DEEP END		ABNDND		LONG	80-13-43			
DRLG FLD		PLUG BK	307.9							

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
299.3 – 300.2	0.192	1792.6
301.1 – 306.0	0.531	
307.2 – 307.7	0.339	
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
219.1	41.7	28.0	CEM	
114.3	14.4	297.2	CEM	

COMPLETION DATA

GAS	5.5	10³m³/d
OIL		m³/d
SIP	2034	kPa
FORM	Thorold-Grimsby	
INTRVL	299.3 -307.7	m
		m
		m

PERF ☐ OPEN HOLE ☒

REMARKS

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
.9 – 336.8	GRNL	Computalog
297.5 – 339.2	DENL	"
–		
–		
–		
–		

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
–		
–		
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE	18.0		
	COLUMBUS			
	LUCAS			
	AMHERSTBURG	29.0		
	SYLVANIA			
	BOIS BLANC	48.2		
	SPRINGVALE	61.7		
	ORISKANY			
SILURIAN	BASS ISLANDS	66.4		
	G SHALE	88.1		
	F SHALE	95.6		
	F SALT			
	E CARBONATE	124.1		
	D SALT/EQUIVALENT			
	C SHALE	155.8		
	B MARKER	162.2		
	B EQUIVALENT			
	B SALT			
	B ANHYDRITE	175.3		
	A2 CARBONATE	178.3		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	183.2		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	193.1		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	275.7		
	ROCHESTER	279.2		
	IRONDEQUOIT	294.7		
	REYNALES/FOSSIL HILL	295.4		
	THOROLD	297.2		
	GRIMSBY	299.3		
	CABOT HEAD	307.4		
	MANITOULIN	328.9		
	WHIRLPOOL	332.7		
ORDOVICIAN	QUEENSTON	333.8		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
CAMBRIAN				
PRECAMBRIAN				

GEOLOGY BY: D. K. Parker

CTY:	Welland	TWP:	Wainfleet	BLK:	-	TRAC:	8	LOT:	29	CON:	IV
WELL NAME:	Mother III Wainfleet 8-29-IV			PERMIT:	6568			INIT CLASS:	NPW		
OPERATOR:	Robert Dean			TARGET:	CLI			CUR STATUS:	GP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Montgomery Bros.			PERMIT:	84-08-07	NORTH:	109.3	m	TOP:	30.5
RIG TYPE:	CAB	DEPTHS		SPUD:	85-03-11	SOUTH:	-	m	BOT:	233.2
CABLE TOP:	0.3	KB ELEV:	177.6	COMPTD:	85-04-26	EAST:	109.0	m	TRAY:	358
BOT:	233.2	LOGGER:	-	OFFCNF:	86-04-26	WEST:	-	m		
ROTRY TOP:	-	DRILLER:	233.2	WRKOVR:	-	LAT:	-			
BOT:	-	DEEP END:	-	ABNDND:	-	LONG:	-			
DRLG FLD:	-	PLUG BK:	-							

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA		
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS:	0.037	$10^3 m^3/d$
175.6 – 182.9	-	-	244	-	3.1	BAR	3.1	OIL:	-	m^3/d
182.9 – 187.1	-	-	219	35.1	36.6	BAR	0	SIP:	1551	kPa
215.2 – -	-	-	140	23.1	161.2	BHP	0	FORM:	Thorold/Grimsby	
–								INTRVL:	182.9 - 187.1	m
–										m
–										m

INITIAL OIL RECORD			LOGGING RECORD			
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	PERF ☐ OPEN HOLE ☒
–			–			REMARKS
–			–			Picks made between top of C Shale and Guelph are uncertain - no logs.
–			–			
–			–			
–			–			
			–			
			–			

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	ANAL
30.5 – -	12.2	FRE	–			
45.1 – -	6.1	SUL	–			
89.3 – -	4.9	SUL	–			
131.1 – -	4.9	SUL	–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE	30.5		
	D SALT/EQUIVALENT			
	C SHALE	43.0		
	B MARKER	59.5		
	B EQUIVALENT	70.1		
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE	78.0		
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE	89.0		
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	92.5		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	153.5		
	ROCHESTER	157.5		
	IRONDEQUOIT	175.3		
	REYNALES/FOSSIL HILL	176.8		
	THOROLD	180.0		
	GRIMSBY	186.0		
	CABOT HEAD	205.5		
	MANITOULIN			
	WHIRLPOOL	215.1		
ORDOVICIAN	QUEENSTON	216.5		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY:	Welland	TWP:	Wainfleet	BLK:	-	TRAC:	-	LOT:	30	CON:	VII
WELL NAME:	E. Henderson #1 Wainfleet 30-VII			PERMIT:	6779			INIT CLASS:	NPW		
OPERATOR:	Earl Henderson			TARGET:	CLI			CUR STATUS:	GP		

DRILLING DATA				DATES		COORDINATES			SAMPLES	
CONTRACTOR:	Montgomery Bros.			PERMIT:	85-05-23	NORTH:	48.8	m	TOP:	38.1
RIG TYPE:	CAB	DEPTHS		SPUD:	85-06-06	SOUTH:	-	m	BOT:	182.9
CABLE TOP:	0.3	KB ELEV:	178.6	COMPTD:	85-07-31	EAST:	251.5	m	TRAY:	3094
BOT:	182.9	LOGGER:	-	OFFCNF:	86-07-31	WEST:	-	m		
ROTRY TOP:	-	DRILLER:	182.9	WRKOVR:	-	LAT:	-			
BOT:	-	DEEP END:	-	ABNDND:	-	LONG:	-			
DRLG FLD:	-	PLUG BK:	-							

INITIAL GAS RECORD			CASING AND TUBING RECORD					COMPLETION DATA		
INTERVAL	FLOW	SIP	DIAM	WEIGHT	SET AT	HOW SET	RECOV	GAS:	0.623	$10^3 m^3/d$
99.7 – -	-	-	219	35.7	39.9	PAC	-	OIL:	-	m^3/d
124.7 – -	-	-	114	17.3	111.9	BHP	-	SIP:	1241	kPa
142.6 – -	-	-						FORM:	Grimsby/Whirlpool	
162.5 – 166.7	0.623	1241						INTRVL:	124.7 - 166.7	m
–										m
–										m

INITIAL OIL RECORD			LOGGING RECORD			
INTERVAL	FLOW	DENSITY	INTERVAL	TYPE	COMPANY	PERF ☐ OPEN HOLE ☐
–			–			REMARKS
–			–			No picks possible between B-equiv. and Guelph. Thorold interval occupied by shale.
–			–			
–			–			
–			–			
			–			
			–			

INITIAL WATER RECORD			CORING RECORD			
INTERVAL	STAT LEV	TYPE	INTERVAL	LOCATION	NO	ANAL
38.1 – -	4.3	FRE	–			
53.0 – -	6.1	SUL	–			
81.4 – -	4.3	SUL	–			
–			–			
–			–			
–			–			

	GEOLOGICAL CONTACTS	TOP	ELEV	THICK
	KB / LAKE LEVEL	0		
	DRIFT / LAKE BOTTOM	0.3		
DEVONIAN	PORT LAMBTON			
	KETTLE POINT			
	HAMILTON			
	MARCELLUS			
	DUNDEE			
	COLUMBUS			
	LUCAS			
	AMHERSTBURG			
	SYLVANIA			
	BOIS BLANC			
	SPRINGVALE			
	ORISKANY			
SILURIAN	BASS ISLANDS			
	G SHALE			
	F SHALE			
	F SALT			
	E CARBONATE			
	D SALT/EQUIVALENT			
	C SHALE			
	B MARKER			
	B EQUIVALENT	38.1		
	B SALT			
	B ANHYDRITE			
	A2 CARBONATE			
	A2 SALT			

SILURIAN	A2 ANHYDRITE			
	A1 CARBONATE			
	A1 SALT			
	A1 ANHYDRITE			
	GUELPH	54.0		
	ERAMOSA			
	GOAT ISLAND			
	GASPORT/WIARTON			
	DECEW	96.0		
	ROCHESTER	107.5		
	IRONDEQUOIT	124.0		
	REYNALES/FOSSIL HILL	127.5		
	THOROLD			
	GRIMSBY	132.6		
	CABOT HEAD	149.5		
	MANITOULIN			
	WHIRLPOOL	157.0		
ORDOVICIAN	QUEENSTON	166.5		
	BLUE MOUNTAIN - GEORG BAY			
	COLLINGWOOD			
	COBOURG			
	VERULAM			
	KIRKFIELD			
	COBOCONK			
	GULL RIVER			
	SHADOW LAKE			
	CAMBRIAN			
	PRECAMBRIAN			

GEOLOGY BY: T. R. Carter

CTY	Wentworth	TWP	Binbrook	BLK	-	TRAC	2	LOT 30	CON IX
WELL NAME	Ace's Dream #1, Binbrook 2-30-IX			PERMIT	6582			INIT CLASS	NPW
OPERATOR	Al Rumbles			TARGET	CLI			CUR STATUS	GP

DRILLING DATA				DATES		COORDINATES		SAMPLES	
CONTRACTOR	Montgomery Bros.			PERMIT	84-08-27	NORTH	- m	TOP	11.0
RIG TYPE	CAB	DEPTHS		SPUD	84-11-01	SOUTH	125.0 m	BOT	147.8
CABLE TOP	0.3	KB ELEV	188.1	COMPTD	85-01-04	EAST	108.0 m	TRAY	265
BOT	147.8	LOGGER	-	OFFCNF	86-01-04	WEST	- m		
ROTRY TOP	-	DRILLER	147.8	WRKOVR	-	LAT	43-04-15		
BOT	-	DEEP END	-	ABNDND	-	LONG	79-46-17		
DRLG FLD	-	PLUG BK	-						

INITIAL GAS RECORD

INTERVAL	FLOW	SIP
93.9 – 98.8	-	-
103.6 – 104.5	0.057	-
127.4 – 129.5	0.042	
–		
–		
–		

CASING AND TUBING RECORD

DIAM	WEIGHT	SET AT	HOW SET	RECOV
273	48.7	11.0	BAR	0
219	35.7	12.2	BAR	0
140	23.1	86.6	BHP	0

COMPLETION DATA

GAS	0.113	10³m³/d
OIL	-	m³/d
SIP	482.6	kPa
FORM	Thorold/Whirlpool	
INTRVL	93.9 - 129.5	m
		m
		m
PERF ☐		OPEN HOLE ☒

INITIAL OIL RECORD

INTERVAL	FLOW	DENSITY
–		
–		
–		
–		
–		

LOGGING RECORD

INTERVAL	TYPE	COMPANY
–		
–		
–		
–		
–		
–		
–		
–		

REMARKS

Guelph, Goat Island, Gasport picks are uncertain.

INITIAL WATER RECORD

INTERVAL	STAT LEV	TYPE
10.7 – –	-	MIN
29.3 – –	-	SUL
53.0 – –	-	SUL
–		
–		
–		

CORING RECORD

INTERVAL	LOCATION	NO	mm
–			
–			
–			
–			
–			

GEOLOGICAL CONTACTS		TOP	ELEV	THICK					
	KB / LAKE LEVEL	0			SILURIAN	A2 ANHYDRITE			
	DRIFT / LAKE BOTTOM	0.3				A1 CARBONATE			
DEVONIAN	PORT LAMBTON					A1 SALT			
	KETTLE POINT					A1 ANHYDRITE			
	HAMILTON					GUELPH	11.0		
	MARCELLUS					ERAMOSA			
	DUNDEE					GOAT ISLAND	66.0		
	COLUMBUS					GASPORT/WIARTON	75.0		
	LUCAS					DECEW	80.0		
	AMHERSTBURG					ROCHESTER	81.0		
	SYLVANIA					IRONDEQUOIT			
	BOIS BLANC					REYNALES/FOSSIL HILL	92.7		
	SPRINGVALE					THOROLD	96.0		
	ORISKANY					GRIMSBY	105.0		
SILURIAN	BASS ISLANDS					CABOT HEAD	113.2		
	G SHALE					MANITOULIN			
	F SHALE					WHIRLPOOL	125.5		
	F SALT				ORDOVICIAN	QUEENSTON	130.0		
	E CARBONATE					BLUE MOUNTAIN - GEORG BAY			
	D SALT/EQUIVALENT					COLLINGWOOD			
	C SHALE					COBOURG			
	B MARKER					VERULAM			
	B EQUIVALENT					KIRKFIELD			
	B SALT					COBOCONK			
	B ANHYDRITE					GULL RIVER			
	A2 CARBONATE					SHADOW LAKE			
	A2 SALT				CAMBRIAN				
					PRECAMBRIAN				

GEOLOGY BY: T. R. Carter

Appendix VI.
Diamond Drill Core Index for Wells Drilled in Southwestern Ontario.

Compiled by Malcolm Campbell

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
**** COUNTY BRANT**												
*** TOWNSHIP BRANTFORD**												
HERCULES	4	IIWMP	864.4	866.5	CAMBRIAN-PRECAMBRIAN	1965	N	Y	0	N/AV	Y	
KEWANEE PAPPL 1	7	JFT	769.0	771.4	PRECAMBRIAN	1964	Y	Y	0	N/AV	Y	
GOLDER ASSOC. BH 1	11	IRSHR	0.0	16.9			N	Y	1	725		PROJ. 773338
*** TOWNSHIP BURFORD**												
SUMAC O & G #4	8	IV	850.7	854.0	CAMBRIAN-PRECAMBRIAN	1962	N	Y	0	N/AV	N	
MCMASTER GOBLES #11	15	I	863.5	867.5	CAMBRIAN-PRECAMBRIAN	1962	N	Y	0	LOST	N	
KEWANEE GOBLES #36	15	II	870.2	872.0	CAMBRIAN	1964	Y	Y	1	401		
KEWANEE GOBLES #39	16	I	868.4	872.6	CAMBRIAN	1964	Y	Y	2	400		
MCMASTER #31 GOBLES	16	I	871.1	878.4	COBOCONK-PRECAMBRIAN	1963	Y	Y	2	246		
KEWANEE MCMASTER #10	17	I	878.1	881.8	CAMBRIAN	1962	N	Y	0	LOST	N	
KEWANEE MCMASTER #22	17	I	874.2	875.4	CAMBRIAN	1963	Y	Y	1	628		
MCMASTER GOBLES #21	17	II	872.6	877.2	CAMBRIAN	1963	N	Y	0	LOST	N	
KEWANEE GOBLES #26	18	I	872.6	879.3	CAMBRIAN-PRECAMBRIAN	1964	Y	Y	2	357		
KEWANEE MCMASTER #23	18	I	879.0	883.0	CAMBRIAN-PRECAMBRIAN	1963	Y	Y	1	423		
KEWANEE GOBLES #42	18	II	873.6	885.7	GULL RIVER-PRECAMBRIAN	1965	Y	Y	3	434		
SUMAC O & G #5	18	II	876.9	885.7	SHADOW LAKE-CAMBRIAN	1962	N	Y	0	N/AV	N	
MCMASTER GOBLES #7	19	I	879.1	886.1	SHADOW LAKE-CAMBRIAN	1961	N	Y	0	N/AV	N	
KEWANEE GOBLES #31	20	I	878.4	887.9	SHADOW LAKE-PRECAMBRIAN	1964	Y	Y	2	396		
MCMASTER #14	20	I	880.3	887.9	SHADOW LAKE-CAMBRIAN	1962	N	Y	0	N/AV	N	
KEWANEE GOBLES #29	21	I	886.4	894.3	SHADOW LAKE-PRECAMBRIAN	1964	Y	Y	3	268		
MCMASTER GOBLES #15	21	I	890.9	893.4	CAMBRIAN-PRECAMBRIAN	1962	N	Y	0	LOST	N	
MCMASTER GOBLES #8	21	I	888.2	891.8	CAMBRIAN	1961	N	Y	0	LOST	N	
IMPERIAL #780	22	I	888.5	897.6	COBOCONK-PRECAMBRIAN	1962	Y	Y	3	285		
IMPERIAL #816	22	I	888.5	900.1	COBOCONK-PRECAMBRIAN	1962	Y	Y	3	393		
MCMASTER GOBLES #14	23	I	888.5	893.7	SHADOW LAKE-CAMBRIAN	1962	N	Y	0	LOST	N	
*** TOWNSHIP ONONDAGA**												
CANADA ESSEX #102	22	I	790.0	792.2	SHADOW LAKE-CAMBRIAN	1964	N	Y	0	N/AV	N	
CDN DELHI #23	55	FCEM	800.1	808.3	CAMBRIAN-PRECAMBRIAN	1963	N	Y	1	437		NOT FULL CORE
*** TOWNSHIP SOUTH DUMFRIES**												
GOLDER ASSOC. BH	?	?	3.0	6.1			N	Y	1	723		PROJ. 773157
GOLDER ASSOC. BH.1	?	?	5.4	8.2			N	Y	1	730		PROJ. 773157
GOLDER ASSOC. BH.2	?	?	1.9	5.0			N	Y	1	722		PROJ. 773157
GOLDER ASSOC. BH.3	?	?	5.9	8.9			N	Y	1	727		PROJ. 773157
GOLDER ASSOC. BH.4	?	?	4.3	7.4			N	Y	1	707		PROJ. 773157
**** COUNTY BRUCE**												
*** TOWNSHIP ALBEMARLE**												
RICHARDSON #522-25	4	VI	1.5	155.4	WIARTON-GEORGIAN BAY/BLUE MTN.	1967	N	Y	49	521		BOX MARK. LOT 5 CONC VIII
OGS 82-4	25	IWBR	19.5	446.5	GOAT ISLAND-PRECAMBRIAN	1982	N	Y	68	862		60.1-299.6 & 422.6-446.5 @ OGS
ADAIR (MARBLE) QUAR.	7-8	VIII	0.0	9.9	WIARTON	1985	N	Y	4	950		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
* TOWNSHIP EASTNOR												
DOW DDH #49	4	X	0.0	20.4	WIARTON-COLPOY BAY	1965	N	Y	0	N/AV	N	
DOW CHEM #12	4	XI	2.4	29.9	WIARTON-LIONS HEAD	1963	N	Y	8	262		
DOW DDH #3A	4	XI	1.5	82.3	GUELPH-MANITOULIN	1963	N	Y	0	N/AV	N	
DOW CHEM #2	5	X	6.1	28.0	WIARTON-LIONS HEAD	1963	N	Y	7	403		
DOW DDH #50	5	X	4.3	24.4	AMABEL-LIONS HEAD	1965	N	Y	0	N/AV	N	
DOW CHEM #11	5	XI	0.6	25.0	WIARTON-LIONS HEAD	1963	N	Y	8	397		
DOW DDH #4A	5	XI	1.2	27.4	AMABEL-LIONS HEAD	1963	N	Y	0	N/AV	N	
DOW DDH #65	6	IX	2.7	23.5	AMABEL-COLPOY BAY	1965	N	Y	0	N/AV	N	
DOW CHEM #1	6	X	10.7	35.4	WIARTON-LIONS HEAD	1963	N	Y	9	263		
DOW DDH #51	6	X	1.2	21.0	GUELPH-COLPOY BAY	1965	N	Y	0	N/AV	N	
DOW CHEM #4A	6	XI	22.6	27.4	COLPOY BAY	1963	N	Y	2	398		BOX MARK. LOT 5 CONC IX, DOW 4
DOW CHEM #5	6	XI	18.6	28.7	COLPOY BAY	1963	N	Y	4	399		
DOW CHEM #9	6-8	XI	0.6	30.5	WIARTON-LIONS HEAD	1963	N	Y	10	347		BOX MARK. LOT 6 DOW #4
DOW DDH #9	6	XI	0.6	30.5	AMABEL-LIONS HEAD	1963	N	Y	0	N/AV	N	
DOW DDH #7A	6	XII	2.1	18.6	AMABEL-LIONS HEAD	1963	N	Y	0	N/AV	N	
DOW DDH #67	7	IX	7.6	27.7	GUELPH-LIONS HEAD	1965	N	Y	0	N/AV	N	
DOW DDH #69	7	VIII	1.8	22.3	GUELPH-COLPOY BAY	1965	N	Y	0	N/AV	N	
DOW DDH #52	7	X	1.5	21.9	AMABEL-LIONS HEAD	1965	N	Y	0	N/AV	N	
DOW CHEM #8	7	XI	0.9	22.9	WIARTON-LIONS HEAD	1963	N	Y	7	343		
DOW DDH #62	7	XI	1.5	21.9	AMABEL-COLPOY BAY	1965	N	Y	0	N/AV	N	
DOW DDH #72	8	VIII	1.8	21.9	GUELPH-COLPOY BAY	1965	N	Y	0	N/AV	N	
DOW CHEM #10	8	X	2.1	29.6	WIARTON-LIONS HEAD	1963	N	Y	8	261		
DOW DDH #53	8	X	1.8	22.6	AMABEL-COLPOY BAY	1965	N	Y	0	N/AV	N	
DOW CHEM #6	8	XI	17.4	36.0	COLPOY BAY-LIONS HEAD	1963	N	Y	4	348		NOT FULL CORE
DOW CHEM #7A	8	XI	17.4	18.6	COLPOY BAY-LIONS HEAD	1963	N	Y	0	348		IN BOX #4 OF DOW #6
DOW DDH #61	8	XI	4.6	24.1	AMABEL-LIONS HEAD	1965	N	Y	0	N/AV	N	
DOW DDH #81	9	IX	3.7	24.1	GUELPH-LIONS HEAD	1965	N	Y	0	N/AV	N	
DOW DDH #75	9	VIII	0.6	20.4	GUELPH-COLPOY BAY	1965	N	Y	0	N/AV	N	
DOW DDH #78	10	VIII	1.5	22.9	GUELPH-COLPOY BAY	1965	N	Y	0	N/AV	N	
* TOWNSHIP HURON												
IMPERIAL #535	9	XI	327.7	373.4	A1 CARBONATE-GUELPH	1955	N	Y	15	255		
* TOWNSHIP KINCARDINE												
BP TRIAD	17	VIII	890.6	894.0	COBOCONK	1965	N	Y	1	436		
AMOCO A-1	31	V	331.0	337.8	GUELPH	1979	Y	Y	14	701		SLEEVES
* TOWNSHIP SAUGEEN												
BP TRIAD	29	II	714.1	719.6	SHADOW LAKE-CAMBRIAN	1964	N	Y	2	511		
** COUNTY CARLETON												
* TOWNSHIP OSGOODE												
CONSUMERS 16306	11	X	808.0	823.0	CAMBRIAN	1968	Y	Y	5	569		
CONSUMERS 16051	16	XI	685.8	698.0	CAMBRIAN	1968	Y	Y	4	385		
CONSUMERS 16051	16	XI	738.2	739.4	PRECAMBRIAN	1968	Y	Y	0	385		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
* TOWNSHIP OTTAWA CITY												
DMTS. OTTAWA #1	J	BRF	13.7	602.0	BLACK RIVER-PRECAMBRIAN	1962	N	Y	0	CO.	N	CORE @ DOM. OBSERV. OTTAWA
** COUNTY DUNDAS												
* TOWNSHIP MATILDA												
ST.LAWRENCE DDH #638	?	?	22.5	38.8	TRENTON	1964	N	Y	6	238		IROQUOIS PT. CORE DESC IN FILE
DAMES & MOORE RH-4	2	VIII	9.8	228.6	BLACK RIVER	1974	Y	Y	76	323		
DAMES & MOORE RH-2	29	I	7.9	167.3	BLACK RIVER	1973	Y	Y	0	N/AV	N	
DAMES & MOORE RH-1	30	I	3.2	209.4	BLACK RIVER-PRECAMBRIAN	1973	Y	Y	70	298		
DAMES & MOORE RH-3	30	I	13.4	164.4	BLACK RIVER-CAMBRIAN	1973	Y	Y	0	N/AV	N	
* TOWNSHIP WINCHESTER												
DAMES & MOORE RH-5	8	I	12.8	94.4	BLACK RIVER	1974	Y	Y	28	328		
** COUNTY DURHAM												
* TOWNSHIP HOPE												
JALORE MINING CO.	18	III	64.0	381.0	TRENTON-PRECAMBRIAN	1950	N	Y	55	171		PT. HOPE #1
* TOWNSHIP PICKERING												
O.G.S. 83-3	18	IIIBF	24.7	251.5	BLUE MOUNTAIN-PRECAMBRIAN	1983	N	Y	0	CO.	N	CORE @ OGS TORONTO
** COUNTY ELGIN												
* TOWNSHIP ALDBOROUGH												
RANNY OIL & MIN. CO.	?	?	50.0	113.4	DUNDEE-LUCAS		N	Y	20	540		
DOMINION P24	D	GORE	129.5	136.2	LUCAS	1956	N	Y	0	N/AV	N	
J. MCCOOLL	D	VII	128.9	132.6	LUCAS	1984	Y	Y	0	CO.	N	
CDN.KEWANEE #101	1	GORE	1217.1	1237.8	CAMBRIAN	1964	Y	Y	4	164		BOX DEPTH DIFF. TO CARD & ANAL
ROTH #79	1	GORE	122.2	128.3	LUCAS	1955	N	Y	0	N/AV	N	
ROTH-MCCALM #76	1	VII	126.8	131.4	LUCAS	1955	N	Y	0	N/AV	Y	
CDN. KEWANEE #102	2	GORE	487.7	524.6	A2 CARBONATE-GUELPH	1964	Y	Y	12	533		
ROTH 81 DOWNIE 36	2	GORE	126.5	130.5	LUCAS	1955	N	Y	0	N/AV	Y	
FELMONT 16	4	IV	115.5	116.4	LUCAS	1955	N	Y	0	N/AV	Y	
FELMONT 9	4	IV	120.7	129.5	DUNDEE	1955	N	Y	0	N/AV	Y	
ALDBORO O & G 13	4	V	115.5	119.8	LUCAS	1955	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 14	4	V	97.5	123.4	DUNDEE-LUCAS	1955	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 15	4	V	121.3	130.1	LUCAS	1955	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 16	4	V	121.3	130.1	LUCAS	1955	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 20	4	V	112.8	125.0	DUNDEE	1955	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 21	4	V	111.3	120.4	LUCAS	1955	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 22	4	V	117.0	125.0	LUCAS	1955	N	Y	0	N/AV	Y	
ALDBORO O & G 23	4	V	115.8	122.8	LUCAS	1955	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 24	4	V	110.6	118.9	LUCAS	1956	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 25	4	V	109.7	115.8	LUCAS	1956	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 26	4	V	111.3	122.8	DUNDEE-LUCAS	1956	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 17	4	VI	116.4	125.9	LUCAS	1955	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 18	4	VI	120.4	129.2	LUCAS	1955	N	Y	0	N/AV	Y	CORE LOST

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
ALDBORO O & G 19	4	VI	121.9	128.6	LUCAS	1955	N	Y	0	N/AV	Y	CORE LOST
ACKERMAN 2	4	VIII	89.3	138.4	HAMILTON-DUNDEE	1957	N	Y	0	N/AV	N	
CDNOXY RODNEY 1-16	5	IV	124.0	128.9	DUNDEE-LUCAS	1985	Y	Y	7	911		SLEEVES
FELMONT OIL 4	5	IV	103.3	111.3	DUNDEE	1955	N	Y	0	N/AV	Y	
FELMONT OIL 6	5	IV	115.5	122.8	LUCAS	1955	N	Y	0	N/AV	Y	
FELMONT OIL 7	5	IV	110.3	120.1	LUCAS	1955	N	Y	0	N/AV	Y	
FELMONT OIL 10	5	IV	117.7	127.7	LUCAS	1955	N	Y	0	N/AV	Y	
FELMONT OIL 12	5	IV	118.3	126.2	LUCAS	1955	N	Y	0	N/AV	Y	
FELMONT OIL 25	5	IV	119.5	124.7	LUCAS	1956	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL. 7	5	IV	122.8	128.3	LUCAS	1957	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL. 8	5	IV	122.5	128.9	LUCAS	1957	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL. 9	5	IV	124.4	130.5	LUCAS	1957	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL.10	5	IV	125.3	131.4	LUCAS	1957	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL.11	5	IV	125.0	131.7	LUCAS	1957	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL.12	5	IV	125.0	131.1	LUCAS	1957	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL.13	5	IV	127.4	132.2	LUCAS	1957	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL.14	5	IV	104.2	110.3	LUCAS	1957	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL.15	5	IV	114.9	121.0	LUCAS	1955	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL.19	5	IV	123.1	128.9	LUCAS	1957	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL.20	5	IV	111.9	118.3	LUCAS	1957	N	Y	0	N/AV	Y	
ALDBORO O & G 8	5	V	115.8	121.6	DUNDEE	1954	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 9	5	V	106.7	120.7	DUNDEE	1954	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 10	5	V	106.7	119.8	DUNDEE-LUCAS	1954	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 11	5	V	111.9	118.0	LUCAS	1954	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 29	5	V	106.4	114.9	LUCAS	1956	N	Y	0	N/AV	Y	
ALDBORO O & G 30	5	V	107.6	119.5	LUCAS	1956	N	Y	0	N/AV	Y	CORE LOST
CCS #11	5	V	103.0	110.6	DUNDEE	1963	Y	Y	0	N/AV	Y	
CDNOXY RODNEY 5-30	5	V	111.0	120.2	LUCAS-AMHERSTBURG	1985	Y	Y	15	913		SLEEVES
CDNOXY RODNEY 6-15	5	V	119.0	123.2	DUNDEE-LUCAS	1985	Y	Y	7	912		SLEEVES
CDNOXY RODNEY 6-18	5	V	114.6	123.8	DUNDEE-LUCAS	1986	Y	Y	8	947		
CS RODNEY 5-29	5	V	111.1	120.1	DUNDEE	1978	N	Y	4	866		
FELMONT OIL 22	5	V	109.1	117.3	LUCAS	1956	N	Y	0	N/AV	Y	
FELMONT OIL 24	5	V	100.6	108.8	LUCAS	1956	N	Y	0	N/AV	N	
FELMONT OIL MCMIL.13	5	V	110.9	118.3	LUCAS	1955	N	Y	0	N/AV	Y	
FELMONT OIL MCMIL.17	5	V	107.6	116.1	DUNDEE	1956	N	Y	0	N/AV	N	
ALDBORO O & G 1	5	VI	119.8	125.0	DUNDEE	1953	N	Y	0	N/AV	Y	CORE LOST
ALDBORO O & G 2	5	VI	121.9	127.1	LUCAS	1954	N	Y	0	N/AV	Y	CORE LOST
CANADA CITIES SER.12	5	VI	78.0	132.9	DUNDEE	1963	Y	Y	0	N/AV	Y	
CS RODNEY 10-10	5	VI	122.3	131.4	DUNDEE	1978	N	Y	8	865		
FELMONT OIL GRAH. 5	6	IV	118.6	125.3	DUNDEE	1956	N	Y	0	N/AV	Y	
FELMONT OIL GRAH. 6	6	IV	122.5	128.0	LUCAS	1956	N	Y	0	N/AV	Y	
FELMONT OIL GRAH. 7	6	IV	123.1	128.9	LUCAS	1956	N	Y	0	N/AV	Y	
FELMONT OIL GRAH. 8	6	IV	120.7	129.2	LUCAS	1956	N	Y	0	N/AV	Y	
FELMONT OIL GRAH. 9	6	IV	125.6	131.7	LUCAS	1957	N	Y	0	N/AV	Y	
FELMONT OIL GRAH. 10	6	IV	126.2	132.3	LUCAS	1957	N	Y	0	N/AV	Y	
CANADA CITIES SER.17	6	V	117.7	125.6	LUCAS	1961	Y	Y	0	N/AV	Y	
FELMONT OIL 17	6	V	121.3	128.0	LUCAS	1955	N	Y	0	N/AV	Y	
FELMONT OIL 19	6	V	119.8	127.1	LUCAS	1956	N	Y	0	N/AV	Y	
FELMONT OIL 20	6	V	118.3	128.0	LUCAS	1956	N	Y	0	N/AV	Y	

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
FELMONT OIL 21	6	V	108.5	117.3	LUCAS	1956	N	Y	0	N/AV	Y	
C.B.LEWIS 16	6	XI	1220.1	1231.7	CAMBRIAN	1960	Y	Y	0	N/AV	N	CORE DESCR. IN FILE
NEW BRISTOL # 1	7	V	114.3	146.3	DUNDEE	1956	N	Y	0	N/AV	N	
NEW BRISTOL # 9	7	V	95.7	138.7	DUNDEE	1956	N	Y	0	N/AV	N	
NEW BRISTOL #10	7	V	89.6	139.3	DUNDEE	1956	N	Y	0	N/AV	N	
FELMONT OIL SCHNEID.	8	GORE	135.0	146.6	DUNDEE	1959	N	Y	0	N/AV	Y	
CANADIAN DELHI	8	X	1194.5	1203.7	COBOCONK-CAMBRIAN	1965	N	Y	3	247		
BRETT-ONACO	9	GORE	120.7	146.6	DUNDEE-LUCAS	1972	N	Y	10	299		
GEMMEL 1 CONDON 1	9	IV	86.9	113.1	HAMILTON-DUNDEE	1956	N	Y	0	N/AV	Y	
UNION DDH 56	9	IV	78.3	137.2	HAMILTON-DUNDEE	1949	N	Y	0	N/AV	N	
UNION DDH 58	9	IV	96.0	152.4	HAMILTON-DUNDEE	1949	N	Y	0	N/AV	N	
CONS/OEC 33833	16	XII	93.6	107.3	DUNDEE	1984	N	Y	12	892		
CONC/OEC 33835	16	XIII	104.6	113.7	DUNDEE	1984	N	Y	0	CO.	Y	
CONC/OEC 33834	17	XII	96.8	110.3	MARCELUS	1984	N	Y	0	CO.	N	101.3 - 110.3 NOT RECOVERED
CONS/OEC 33828	17	XII	98.4	107.4	DUNDEE	1984	N	Y	8	893		
CONS/OEC 33831	17	XIII	100.2	109.6	DUNDEE	1984	N	Y	10	906		
CONSUMERS 33830	17	XIII	95.7	108.2	DUNDEE	1985	N	Y	8	879		
• TOWNSHIP BAYHAM												
TOWNSEND UBR ET AL	?	?	318.5	333.8	A2 CARBONATE-GUELPH		N	Y	5	654		INFO FROM CORE BOXES ONLY
TOWNSEND UBR ET AL	114	NTR	318.5	336.5	GUELPH-GOAT ISLAND	1969	Y	Y	6	170		
• TOWNSHIP DUNWICH												
IMPERIAL 817	5	VIII	141.4	171.9	DUNDEE	1962	N	Y	0	N/AV	N	
IMPERIAL OIL 5	5	VIII	141.4	171.9	DUNDEE	1963	N	Y	10	443		
CDN OIL#1 G.REEVES#1	7	VI	1146.0	1169.2	SHADOW LAKE-PRECAMBRIAN	1963	Y	Y	7	218		
SARCEE PETROL #2	13	X	105.2	122.8	LUCAS	1962	Y	Y	0	N/AV	Y	
SARCEE PETROL #1	14	X	97.5	125.0	DUNDEE-LUCAS	1962	Y	Y	0	N/AV	Y	
BLUEWATER	16	I	1094.2	1100.3	SHADOW LAKE-CAMBRIAN	1964	Y	Y	2	174		
BLUEWATER I.O.E.	17	I	1091.2	1104.3	GULL RIVER-PRECAMBRIAN	1964	Y	Y	4	402		
DPW #2	17	II	39.3	41.5	HAMILTON	1965	N	Y	1	830		PT.TALBOT SCOUT CAMP
MILLS #1	21	I	1090.9	1099.6	CAMBRIAN-PRECAMBRIAN	1968	Y	Y	2	250		CORE IN PIECES & OUT OF SEQU.
IMP. BLUEWATER #904	21	II	69.2	87.5	HAMILTON-DUNDEE	1965	Y	Y	14	166		
IMP. BLUEWATER #904	21	II	1092.7	1118.9	COBOCONK-PRECAMBRIAN	1965			0	166		
IMPERIAL 857	23	A	1128.1	1129.0	SHADOW LAKE	1963	N	Y	1	579		
BLUEWATER DUN. 1	23	I	1083.3	1095.1	CAMBRIAN-PRECAMBRIAN	1969	Y	Y	3	435		
IMP. BLUEWATER 906	23	III	1091.8	1104.3	SHADOW LAKE-PRECAMBRIAN	1965	Y	Y	4	161		LOT 28 ON BOXES
ATLAS #1	23	IV	1088.1	1103.4	GULL RIVER-CAMBRIAN	1968	Y	Y	5	167		
I.O.E.L. ATLAS	23	IV	1091.8	1107.0	SHADOW LAKE-PRECAMBRIAN	1968	Y	Y	5	165		LOT 21 CONC I ON BOXES
• TOWNSHIP SOUTH DORCHESTER												
CS ET AL	7	VII	1039.0	1053.4	CAMBRIAN-PRECAMBRIAN	1983	Y	Y	22	864		SLEEVES
CS ET AL S. DORCH.	10	VIII	1058.0	1069.5	GULL RIVER-CAMBRIAN	1982	Y	Y	12	863		
BLUEWATER 7	16	VII	1053.1	1063.1	CAMBRIAN-PRECAMBRIAN	1964	Y	Y	3	234		
• TOWNSHIP SOUTHWOLD												
BLUEWATER ET AL	17	I	1096.7	1110.0	SHADOW LAKE-CAMBRIAN	1964	Y	Y	5	408		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
* TOWNSHIP YARMOUTH												
O.G.S. 82-3	9	I	79.8	1168.5	MARCELLUS-PRECAMBRIAN	1983	Y	Y	570	861		1099.1-1168.5 @ OGS TORONTO
IMPERIAL 850	16	XIV	1049.1	1051.6	SHADOW LAKE	1963	N	Y	1	577		
** COUNTY ESSEX												
* TOWNSHIP ANDERDON												
LUCAS #3	4	VIII	7.6	29.3	DUNDEE-LUCAS	1985	N	Y	19	881		
* TOWNSHIP COLCHESTER SOUTH												
LUCAS #2	11	V	15.8	29.6	DUNDEE-LUCAS	1985	N	Y	12	882		
IMPERIAL OIL 703	76	FRONT	637.9	758.1	COBOURG-GULL RIVER	1959	N	Y	39	528		CONC I ON BOXES
IMPERIAL OIL 718	79	FRONT	657.1	838.8	COBOURG-COBOCONK	1959	N	Y	56	143		CONC I ON BOXES
IMPERIAL OIL 723	79	FRONT	634.0	747.7	MEAFORD-COBOCONK	1960	N	Y	37	196		CONC II ON BOXES
* TOWNSHIP GOSFIELD SOUTH												
PUTMAN CDN. DEVONIAN	6	FCWD	738.5	758.8	COBOURG	1961	Y	Y	6	287		CONC IWD ON BOXES
IMPERIAL ET AL 813	6	IV	41.1	772.1	DUNDEE-KIRKFIELD	1962	N	Y	77	197		CONC 4WD ON BOXES
* TOWNSHIP MALDEN												
S PUTMAN W SELLARS 1	66	VII	679.1	709.1	COBOURG	1961	Y	Y	9	205		
B.A. #19 ANDERDON #1	67	VI	668.1	705.8	COBOURG	1962	Y	Y	47	839		SLEEVES
* TOWNSHIP MERSEA												
ENTRANCE TO PT.PELEE	?	?	0.0	0.0	DUNDEE		N	Y	1	199		PT.PELEE NATL. PK.
LUCAS #1	6	IV	20.0	32.1	DUNDEE	1985	N	Y	10	883		
CONS ET AL 33822	11	I	758.0	796.0	COLLINGWOOD-SHERMAN FALL	1985	Y	Y	31	910		
CONS ET AL 33823	12	A	764.0	824.0	COBOURG-SHERMAN FALL	1985	Y	Y	51	909		
CONS ET AL 33821	12	I	764.0	818.0	COLLINGWOOD-SHERMAN FALL	1985	Y	Y	76	907		
CONS ET AL 33821	12	I	860.0	878.0	KIRKFIELD-COBOCONK	1985			0	907		
CONS ET AL 33821	12	I	940.0	958.0	GULL RIVER	1985			0	907		
CONS ET AL 33825	14	A	764.0	790.5	COLLINGWOOD-COBOURG	1985	Y	Y	16	908		780.4-786.0 MISSING
CONS. ET AL 34151	18	VIII	797.5	837.0	COBOURG-SHERMAN FALL	1988	Y	Y	18	946		
* TOWNSHIP SANDWICH WEST												
CANSALT DDH 87-3	?	?	32.0	288.6	LUCAS-E CARBONATE	1987	N	Y	122	953		
WYANDOTTE CHEM.	?	?	23.8	440.7	LUCAS-B SALT	1959	N	Y	0	N/AV	N	FIGHTING ISLAND
DOME WINDSOR 33	58	I	290.5	480.1	SALINA		N	Y	64	162		DOME WINDSOR #A33 ON BOXES
DOME STORAGE E5	59	I	273.0	420.0	F SHALE-B SALT	1980	N	Y	122	777		MISSING CORE
* TOWNSHIP TILBURY WEST												
BRETT GAGNIER	5	XI	352.6	359.4	GUELPH	1983	Y	Y	4	888		
** COUNTY FRONTENAC												
* TOWNSHIP KINGSTON												
GOLDER ASSOC. BH101	?	?	11.0	14.0			N	Y	1	713		PROJ. 763009
GOLDER ASSOC. BH102	?	?	0.0	0.0			N	Y	1	720		PROJ. 763009 NO FOOTAGE ON BOX
GOLDER ASSOC. BH103	?	?	13.1	14.5			N	Y	1	719		PROJ. 763009 HOL. INN KINGSTON

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
GOLDER ASSOC. BH104	?	?	7.9	8.8			N	Y	1	717		PROJ. 763009 HOL. INN KINGSTON
GOLDER ASSOC.BH105-6	?	?	10.4	11.3			N	Y	1	718		PROJ. 763009 HOL. INN KINGSTON
** COUNTY GLENGARRY												
* TOWNSHIP CHARLOTTENBURGH												
WESTROC CR 52	?	?	18.9	113.4	OXFORD		N	Y	27	782		CORE DESCR. ST REGIS ISL. I.R.
WESTROC CR 41	A	IFR	13.7	99.1	ST. MARTIN-OXFORD		N	Y	28	786		CORE DESCR. IN FILE
WESTROC CR 44	1	I IL	28.3	78.3	ST. MARTIN-OXFORD		N	Y	16	785		CORE DESCR. IN FILE
WESTROC CR 39	1	ISSR	11.0	135.6	ST. MARTIN-OXFORD		N	Y	40	796		
WESTROC CR 33	3	IRF	11.3	133.2	ST. MARTIN-OXFORD		N	Y	40	792		
WESTROC CR 3	7	III IL	12.8	125.6	ST. MARTIN-OXFORD		N	Y	37	787		MISSING CORE
WESTROC CR 51	24	IFR	14.3	42.7	OXFORD		N	Y	9	784		CORE DESCR. IN FILE
ST. LAWRENCE DDH#800	44	III	9.1	50.6	TRENTON	1954	N	Y	14	239		401-V ON BOXES GRANT'S CORNERS
WESTROC CR 42	61	INSR	10.4	125.3	ST. MARTIN-OXFORD		N	Y	36	795		
* TOWNSHIP KENYON												
IMP. OIL LAGGAN #1	5	VIII	9.1	692.5	BLACK RIVER-CAMBRIAN	1962	Y	Y	254	186		
* TOWNSHIP LANCASTER												
WESTROC CR 11	?	VIII	14.6	154.2	OXFORD		N	Y	44	791		
WESTROC CR 14	3	III	21.3	117.7	OXFORD		N	Y	30	794		
WESTROC CR 28	13	III	53.9	59.7	OXFORD		N	Y	2	783		
WESTROC CR 28	13	III	59.7	139.3	OXFORD		N	Y	27	799		
WESTROC CR 18	15	II	12.2	173.4	OXFORD		N	Y	45	790		MISSING CORE
WESTROC CR 13	23	III	11.6	200.6	OXFORD		N	Y	59	793		
WESTROC CR 12	25	III	26.5	153.3	OXFORD		N	Y	41	789		
* TOWNSHIP LOCHIEL												
CONSUMERS 12023	38	IX	214.3	264.0	BLACK RIVER	1967	Y	Y	14	564		
** COUNTY GREY												
* TOWNSHIP BENTINCK												
GOLDER ASSOC. BH 1	16	III	12.0	14.1			N	Y	1	735		HENDERSON BRIDGE PROJ. 773300
* TOWNSHIP COLLINGWOOD												
O.G.S. 83-4	27	X	51.8	93.3	BLUE MOUNTAIN-COBOURG	1983	N	Y	0	CO.	Y	CORE @ OGS TORONTO
* TOWNSHIP KEPPEL												
GOLDER ASSOC. BH 1	35	XVIII	3.7	6.1			N	Y	1	737		KEPPLE BRIDGE #1 PROJ. 783224
GOLDER ASSOC. BH 2	35	XVIII	3.0	5.9			N	Y	1	736		PROJ. 783224 KEPPLE #2
* TOWNSHIP ST. VINCENT												
GOLDER ASSOC. BH 1	13	V	6.1	7.6			N	Y	1	705		PROJ. 773163

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
**** COUNTY HALDIMAND**												
* TOWNSHIP SENECA												
GOLDER ASSOC. BH 1	?	?	17.7	19.3			N	Y	1	709		
GOLDER ASSOC. BH 20	?	?	17.7	19.2			N	Y	1	708		
* TOWNSHIP SHERBROOKE												
ERCO #4	4	III	205.7	214.9	IRONDEQUOIT-GRIMSBY	1964	N	Y	4	178		LOT A ON BOXES
* TOWNSHIP WALPOLE												
PETERSON NO. 1	5	VI	249.3	251.5	REYNALES	1962	N	Y	0	N/AV	N	
**** COUNTY HALTON**												
* TOWNSHIP NASSAGAWEYA												
O.G.S. 83-1	9	VII	0.0	637.6	KB-PRECAMBRIAN	1983	N	Y	0	CO.	Y	CORE @ OGS TORONTO
**** COUNTY HASTINGS**												
* TOWNSHIP MURRAY												
CONSUMERS 16066	1	II	4.9	135.0	VERULAM-PRECAMBRIAN	1968	Y	Y	44	430		
* TOWNSHIP TYENDINAGA												
CONSUMERS 12044	15	III	0.0	110.6	VERULAM-PRECAMBRIAN	1967	N	Y	39	245		110.7-335.9 MISSING
**** COUNTY HURON**												
* TOWNSHIP ASHFIELD												
GOLDER ASSOC. BH 5	?	?	32.3	34.0			N	Y	1	733		PROJ. 773087
* TOWNSHIP COLBORNE												
GOLDER ASSOC. BH 19	5	A	5.1	6.6			N	Y	1	721		PROJ. 773236
GOLDER ASSOC. BH 4	6	A	28.8	31.1			N	Y	1	731		PROJ. 773087
* TOWNSHIP GODERICH												
DOMINION ROCK SALT	?	?	0.0	233.8	DETROIT RIVER-SALINA	1955	N	Y	0	N/AV	N	TOWN OF GODERICH, DDH #1
DOMINION ROCK SALT	?	?	260.6	545.9	SALINA	1956	N	Y	0	N/AV	N	TOWN OF GODERICH, DDH #10
DOMINION ROCK SALT	?	?	262.7	537.1	SALINA	1956	N	Y	0	N/AV	N	TOWN OF GODERICH DDH #13
DOMINION ROCK SALT	?	?	273.4	540.4	SALINA	1956	N	Y	0	N/AV	N	TOWN OF GODERICH, DDH #6
DOMINION ROCK SALT	?	?	274.6	548.0	SALINA	1956	N	Y	0	N/AV	N	TOWN OF GODERICH, DDH #12
DOMINION ROCK SALT	?	?	275.8	542.8	SALINA	1956	N	Y	0	N/AV	N	TOWN OF GODERICH, DDH #9
DOMINION SALT DDH #2	?	?	0.1	585.2	LUCAS-GUELPH	1955	N	1	0	N/AV	N	TOWN OF GODERICH
DOMINION SALT DDH #5	?	?	281.9	586.7	SALINA	1957	N	Y	0	N/AV	N	TOWN OF GODERICH
DOMINION SALT DDH#11	?	?	267.3	543.5	SALINA	1956	N	Y	0	N/AV	N	TOWN OF GODERICH
DOMINION SALT DDH#14	?	?	304.8	569.4	SALINA	1957	N	Y	0	N/AV	N	TOWN OF GODERICH
DOMINION SALT DDH#17	?	?	12.8	344.7	SALINA	1957	N	Y	0	N/AV	N	TOWN OF GODERICH
DOMTAR TEST #3	?	?	14.3	73.9	LUCAS	1980	N	Y	17	764		DRILLED IN BAY OFF GODERICH
GOLDER ASSOC. BH 3	?	?	33.5	34.7	DUNDEE		N	Y	1	732		PROJ. 773087
SIFTO B.W.#6	1	MAIT.	400.8	484.0	SALINA	1960	N	Y	0	N/AV	N	

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
DOMTAR GODERICH ST#1	2	M	34.1	498.3	DUNDEE-B ANHYDRITE	1973	Y	Y	0	CO.	N	
GOLDER ASSOC. BH 2	11	I	29.0	0.0			N	Y	1	734		PROJ. 773087
GOLDER ASSOC. BH 1	25	I	29.0	0.0			N	Y	1	726		PROJ. 773087
* TOWNSHIP STANLEY												
BLUEWATER O&G PORTER	7	BRN	527.6	584.8	GUELPH	1956	N	Y	22	300		
* TOWNSHIP STEPHEN												
CRABTREE #4	19	XVIII	524.6	542.8	GUELPH	1962	N	Y	0	N/AV	N	
IMPERIAL #525	42	SB	519.4	527.3	A2 CARBONATE-A1 CARBONATE	1955	N	Y	17	329		
** COUNTY KENT												
* TOWNSHIP CAMDEN GORE												
BAYFIELD #2	3	VII	501.1	513.6	GUELPH	1955	N	Y	0	N/AV	N	
BRETT	5	XIV	178.9	185.0	LUCAS	1984	N	Y	3	887		
* TOWNSHIP CHATHAM												
GOLDER ASSOC. BH 3	7	I	18.4	20.4			N	Y	1	724		PROJ. 763065 COMMUNICATIONS RD
GOLDER ASSOC. BH 4	7	I	14.8	16.3			N	Y	1	728		PROJ. 763065 COMMUNICATIONS RD
* TOWNSHIP DOVER												
GOLDER ASSOC. BH 1	?	?	21.0	23.5			N	Y	1	710		PROJ. 773020 BEAR CREEK BRIDGE
PPC #12	6	IVE	1005.5	1024.0	COBOCONK	1988	Y	Y	0	0		CONFID. UNTIL MAR.89
ROWE/RAM #7	12	VE	1095.0	1131.3	GULL RIVER	1984	Y	Y	20	891		
* TOWNSHIP HARWICH												
CROSS #1 RICHARDSON	5	VWBS	98.1	125.3	DUNDEE	1957	N	Y	0	N/AV	N	
GOLDER ASSOC. BH 6	7	IIRT	21.3	23.2			N	Y	1	716		PROJ. 763065 COMMUNICATIONS RD
OGS 82-2 CHATHAM	25	IECR	20.8	1180.8	KETTLE POINT-CAMBRIAN	1982	N	Y	658	860		
* TOWNSHIP ORFORD												
IMPERIAL #844	6	A	1196.6	1206.4	GULL RIVER-CAMBRIAN	1963	N	Y	3	593		
IMPERIAL #829	52	NTR	1196.0	1203.5	SHADOW LAKE-CAMBRIAN	1963	Y	Y	7	243		
IMPERIAL #841	53	NTR	1201.2	1214.2	CAMBRIAN	1963	Y	Y	4	409		
IMPERIAL #808	55	NTR	1200.6	1245.5	COBOCONK-PRECAMBRIAN	1962	Y	Y	12	203		
IMPERIAL #863	57	NTR	1213.4	1242.4	CAMBRIAN-PRECAMBRIAN	1964	N	Y	9	275		
* TOWNSHIP RALEIGH												
STEVENSON #2	1	I	55.8	77.7	DUNDEE	1984	N	Y	6	872		60.4-73.1 MISSING
CONSUMERS 33406	1	VI	418.8	446.0	A2 CARBONATE-GUELPH	1981	Y	Y	15	752		
PUTMAN-STERLING #1	23	IVEB	76.2	123.1	DUNDEE-LUCAS	1967	Y	Y	13	828		SLEEVES 82.0-118.9 MISSING
PUTMAN-BEDOSTI #1	25	VIII	111.6	123.7	DUNDEE	1967	Y	Y	13	827		SLEEVES
* TOWNSHIP ROMNEY												
IMPERIAL #646	A	GORE	815.8	827.5	COLLINGWOOD-SHERMAN FALL	1958	N	Y	16	531		
IMPERIAL #646	A	GORE	1072.6	1113.3	COBOCONK-PRECAMBRIAN	1958			0	531		
CONS. ET AL 34345	13	III	832.0	878.5	COBOURG-SHERMAN FALL	1988	N	Y	66	956		SLEEVES
CONS. ET AL 34160	8	II	806.5	867.7	COBOURG-KIRKFIELD	1986	Y	Y	51	945		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
FELMONT OIL RIVARD 1	25	II	429.2	432.2	GUELPH	1957	N	Y	0	N/AV	N	
* TOWNSHIP TILBURY EAST												
CONSUMERS 33407	1	IX	82.5	558.3	HAMILTON-ROCHESTER	1982	Y	Y	36	759		113.6-410.1&445.2-558.3@UN.WDS
PAN WESTERN TILB. #1	1	VIII	432.8	447.4	A1 CARBONATE-GUELPH	1957	N	Y	0	N/AV	Y	
CONSUMERS 33323	2	VIII	413.4	440.9	A2 ANHYDRITE-GUELPH	1981	Y	Y	22	750		
CONSUMERS 33408A	2	X	94.5	460.0	DUNDEE-GUELPH	1982	Y	Y	203	772		
CONS 40000	3	IX	412.2	437.2	A1 CARBONATE-GUELPH	1983	Y	Y	21	939		
CONS 40003	3	IX	408.0	437.8	A1 CARBONATE-GUELPH	1983	N	Y	25	937		
CONSUMERS 40002	3	IX	401.0	437.5	A1 CARBONATE-GUELPH	1983	N	Y	30	940		
CONS 40001	4	IX	407.0	438.0	A1 CARBONATE-GUELPH	1983	Y	Y	25	938		
CONSUMERS 33409	4	IX	91.6	549.3	DUNDEE-ROCHESTER	1982	Y	Y	248	751		
CONSUMERS 33411	9	NMR	134.0	543.0	LUCAS-ROCHESTER	1982	Y	Y	29	760		134.0-404.0&458.9-543.0@UN.WDS
* TOWNSHIP ZONE												
UNION GAS ZONE NO 92	10	VII	420.9	474.3	A2 CARBONATE-A1 CARBONATE	1961	Y	Y	0	N/AV	N	
** COUNTY LAMBTON												
* TOWNSHIP BOSANQUET												
ROCK GLEN PK ARKONA	4	S.BOUN	1.2	110.6	HAMILTON-LUCAS	1961	N	Y	27	576		
GSC #2 IPERWASH #1	8	A	0.5	130.0	HAMILTON-DUNDEE	1962	N	Y	28	580		LOT 9 ON BOXES
HOME OIL CDR UNION	18	IV	1199.4	1232.0	GULL RIVER-CAMBRIAN	1965	N	Y	10	543		
* TOWNSHIP BROOKE												
LEESA IMPERIAL	13	I	99.4	138.2	HAMILTON-LUCAS	1965	N	Y	13	546		
RAM 77	24	X	101.5	137.2	KETTLE POINT-DUNDEE	1984	Y	Y	22	880		
* TOWNSHIP CORUNNA												
ST. CLAIR RIVER	?	?	38.0	41.2	KETTLE POINT		N	Y	1	646		SURVEY #1001
* TOWNSHIP DAWN												
CADILAC #1 SCOTT #3	13	X	495.9	499.6	A1 CARBONATE	1958	N	Y	0	N/AV	N	
BRETT	18	XIII	96.0	108.2	DUNDEE-COLUMBUS	1986	N	Y	8	948		
LEESA IMPERIAL	18	XIII	73.2	103.6	DUNDEE-LUCAS	1965	N	Y	10	559		
LEESA IMPERIAL #2	18	XIII	72.5	103.3	HAMILTON-LUCAS	1965	N	Y	11	558		
UNION #247	19	I	483.7	544.3	GUELPH	1984	Y	Y	31	873		
LEESA	19	XIII	73.2	108.8	DUNDEE-LUCAS	1966	N	Y	12	383		
IMPERIAL #518	21	XI	85.0	93.1	HAMILTON-DUNDEE	1955	N	Y	2	548		MISSING CORE
STANWELL-ANCHOR	23	I	594.1	606.9	A1 EVAPORITE-GOAT ISLAND	1966	Y	Y	0	N/AV	Y	
LEESA IMPERIAL	27	XIII	107.3	143.3	DUNDEE-LUCAS	1965	N	Y	12	590		
UNION BENTPATH #2	31	V	492.3	547.1	A2 CARBONATE-GUELPH	1970	Y	Y	17	344		
UNION BENTPATH #3	31	V	568.1	604.1	GUELPH-GOAT ISLAND	1970	Y	Y	11	138		
UNION DAWN #230	33	I	605.0	645.3	GUELPH	1959	N	Y	14	591		
UNION DAWN #185	33	II	542.2	661.1	GUELPH-ROCHESTER	1954	N	Y	4	596		MISSING CORE
* TOWNSHIP ENNISKILLEN												
UNION DAWN #197	9	I	569.4	618.4	A1 CARBONATE-GUELPH	1956	N	Y	0	N/AV	N	
UNION ENNISK.	9	II	494.1	666.6	A2 CARBONATE-ROCHESTER	1970	Y	Y	55	578		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
BRENNAN-COREY #1	13	IX	115.8	151.5	DUNDEE	1956	N	Y	0	N/AV	N	
DEMERS #G	17	II	96.9	112.8	DUNDEE	1955	N	Y	0	LOST	N	
DEMERS #W-1	17	II	76.5	120.4	DUNDEE	1957	N	Y	0	LOST	N	
IMPERIAL #830	17	II	100.9	123.7	DUNDEE-LUCAS	1962	Y	Y	7	583		
JACQUES & SON #1	17	X	121.6	146.0	DUNDEE	1966	N	Y	0	N/AV	Y	
RAM #38	17	X	566.9	632.2	GUELPH	1976	Y	Y	20	671		
IMPERIAL #831	18	I	100.9	133.8	DUNDEE-LUCAS	1962	Y	Y	8	595		
LAMBTON AREA IND.	18	I	94.5	121.6	DUNDEE	1960	N	Y	0	N/AV	N	
IMPERIAL #838	18	II	87.5	121.9	DUNDEE-LUCAS	1963	Y	Y	11	605		
IMPERIAL #805 LYONS	20	V	173.7	559.9	LUCAS-A2 CARBONATE	1962	N	Y	93	586		185.9-207.3 MISSING
C.B.H. ENNISK.	27	VI	567.8	573.9	A1 CARBONATE	1968	N	Y	6	589		
C.B.H. ENNISK.	27	VI	606.6	617.2	GUELPH-GOAT ISLAND	1968	N	Y	0	589		
* TOWNSHIP EUPHEMIA												
AMOCO A-1	18	IV	480.0	489.0	GUELPH	1979	Y	Y	2	703		
MORNINGSTAR DOBYN #1	27	IV	94.8	103.6	DUNDEE	1955	N	Y	0	N/AV	N	
NYK OIL MUNROE #1	27	IV	76.5	110.0	DUNDEE-LUCAS	1956	N	Y	0	N/AV	Y	
* TOWNSHIP MOORE												
ST. CLAIR SURVEY	?	?	44.3	48.2	KETTLE POINT		N	Y	1	642		
I.O.E.	2	XII	117.7	147.5	DUNDEE	1964	Y	Y	10	625		
I.O.E. #870	2	XII	118.9	146.9	DUNDEE	1964	Y	Y	9	624		
IMPERIAL #833	2	XII	97.2	149.4	HAMILTON-LUCAS	1962	Y	Y	12	626		
IMPERIAL #840	3	X	116.4	151.8	DUNDEE-LUCAS	1963	N	Y	12	602		
CORDEN ET AL	5	I	643.1	658.4	A1 EVAPORITE-GOAT ISLAND	1969	N	Y	5	382		
CORDEN ET AL	5	II	646.2	663.2	A1 EVAPORITE-GOAT ISLAND	1971	N	Y	6	599		
IMPERIAL #712	9	II	656.8	687.3	GUELPH	1959	N	Y	10	556		
CDN DELHI BRIGDEN	9	IV	641.9	654.1	A2 ANHYDRITE-A1 CARBONATE	1964	Y	Y	4	536		
RAM #81	9	IV	638.6	643.6	A1 CARBONATE	1985	Y	Y	5	889		
IMPERIAL #410	10	II	552.0	682.9	A2 ANHYDRITE-GUELPH	1954	N	Y	44	424		
IMPERIAL #431	10	II	558.4	682.7	B SALT-A1 CARBONATE	1954	N	Y	48	525		
IMPERIAL #431	10	II	719.3	729.4	ROCHESTER-REYNALES	1954			0	525		
IMPERIAL #431	10	II	958.6	965.6	QUEENSTON-COBOURG	1954			0	525		
IMPERIAL #431	10	II	1107.3	1114.8	COBOURG-COBOCONK	1954			0	525		
IMPERIAL #547	10	IX	156.1	192.0	DUNDEE-LUCAS	1956	N	Y	12	532		
CONSUMERS 26566	10	V	634.6	652.9	A2 ANHYDRITE-A1 CARBONATE	1969	Y	Y	265	812		
RAM #1	10	V	640.4	652.9	A1 CARBONATE	1968	Y	Y	8	572		
RAM #1	10	V	683.4	689.4	GUELPH	1968	Y	Y	0	572		
CONSUMERS 31868	11	IV	648.3	656.2	A1 CARBONATE	1970	Y	Y	3	192		
CONSUMERS 16285	11	V	639.8	657.5	A2 SALT-A1 CARBONATE	1968	Y	Y	51	840		SLEEVES
CONSUMERS 16285	11	V	680.0	698.3	GUELPH-GASPORT	1968			0	840		
CDN DELHI #36	11	VI	648.6	659.3	A1 CARBONATE	1964	Y	Y	4	535		
IMPERIAL #420	17	VIII	669.0	677.3	A1 CARBONATE	1954	N	Y	8	608		
IMPERIAL #420	17	VIII	720.9	739.6	GUELPH	1954			0	608		
IMPERIAL #430	17	VIII	620.1	737.5	GUELPH	1954	N	Y	38	142		
TEC KIMBALL #38	17	VIII	617.5	629.4	A2 CARBONATE-A1 CARBONATE	1972	Y	Y	10	874		CORE DESCR. IN FILE
TECUMSEH KIMBALL #35	17	VIII	603.2	612.3	A2 CARBONATE-A1 CARBONATE	1972	Y	Y	0	CO.	N	CONS. CORE DESCR. IN FILE
O.G.S. 82-1	18	FRONT	62.2	1380.7	PORT LAMBTON-PRECAMBRIAN	1982	N	Y	0	N/AV	Y	CORE AT OGS TOR.
IMPERIAL #607	18	IX	696.5	749.8	A2 SALT-GUELPH	1957	N	Y	18	217		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
IMPERIAL #591	19	IX	699.5	758.0	A1 CARBONATE-GUELPH	1957	N	Y	18	522		
IMPERIAL #387	19	VI	618.0	734.9	GUELPH-ROCHESTER	1953	N	Y	40	530		
IMPERIAL #419	19	X	701.8	746.7	A2 ANHYDRITE-GUELPH	1953	Y	Y	15	557		
IMPERIAL #552	19	X	707.4	727.3	A2 SALT-A1CARBONATE	1956	N	Y	6	439		
IMPERIAL #553	19	X	720.9	733.7	A2 SALT-A1 CARBONATE	1956	Y	Y	4	547		
MCCLURE	20	IV	662.3	694.9	A1 CARBONATE-GUELPH	1969	N	Y	9	594		
TECUMSEH SECKERTON 7	20	IX	696.1	741.0	GUELPH	1953	N	Y	16	524		
IMPERIAL #661	20	X	190.5	221.3	DUNDEE-LUCAS	1958	N	Y	10	603		
IMPERIAL #344 MURRAY	21	IX	655.3	794.0	GUELPH-ROCHESTER	1953	N	Y	45	152		
IMPERIAL #376	21	IX	702.9	793.4	A2 SALT-ROCHESTER	1953	N	Y	30	523		
IMPERIAL #656	21	VIII	723.6	760.8	GUELPH	1958	N	Y	11	592		
IMPERIAL #706 UNION	21	X	733.0	785.2	GUELPH	1959	N	Y	17	584		
IMPERIAL 242 PAYNE 4	22	VII	611.4	763.5	A1 CARBONATE-ROCHESTER	1953	N	Y	51	198		
IMPERIAL 405 PAYNE 8	22	VII	691.3	760.2	GUELPH-ROCHESTER	1953	N	Y	23	598		
PETROSAR STOR CAVERN	23	X	561.1	655.9	B MARKER-A2 CARBONATE	1975	Y	Y	31	661		#FB 9133
DOW 66	24	XI	273.0	420.2	LUCAS-G SHALE	1981	N	Y	0	LOST	N	
DOW 43	24	XII	61.0	758.3	PORT LAMBTON-A2 SALT	1971	N	Y	0	CO.	N	
GSC 3	25	RF	52.7	91.1	PORT LAMBTON-KETTLE POINT	1962	N	Y	0	N/AV	N	
DOW BRINE 15	26	XII	457.2	777.2	G SHALE-A1 CARBONATE	1959	N	Y	0	LOST	N	
IMPERIAL 261	27	FRONT	57.3	91.2	PORT LAMBTON	1950	N	Y	0	N/AV	N	
ARGOR 65-1	28	II	69.2	735.9	PORT LAMBTON-GUELPH	1965	N	Y	210	538		
DOMINION SALT	54	RF	44.8	733.0	KETTLE POINT-A2 ANHYDRITE	1953	N	Y	0	N/AV	N	
CDN. OIL 1	67	RF	594.4	687.0	SALINA	1954	N	Y	0	N/AV	N	
CDN. OIL 2	68	FR	716.3	766.6	SALINA	1961	N	Y	0	N/AV	N	
SHELL CAN STOR CAV 3	68	RF	583.7	602.0	C SHALE-B SALT	1969	Y	Y	6	318		
• TOWNSHIP PLYMPTON												
IMPERIAL #576	1	I	663.9	719.4	A1 CARBONATE-GASPORT	1956	N	Y	18	542		
IMPERIAL #810	1	III	49.4	655.5	HAMILTON-A2 CARBONATE	1962	Y	Y	43	419		MISSING CORE
IMPERIAL #835	6	II	129.2	163.1	DUNDEE-LUCAS	1962	Y	Y	11	155		
• TOWNSHIP SARNIA												
ST. CLAIR SURVEY	?	?	31.7	36.9	KETTLE POINT		N	Y	2	643		POINT EDWARD
IMPERIAL ETHYL STO.1	A	R5	780.3	813.8	A2 SALT	1960	N	Y	5	541		
IMPERIAL 826 MASON 2	2	VI	108.2	140.2	DUNDEE	1962	Y	Y	10	610		
DEVRAN	3	VI	5.2	208.5	DUNDEE	1987	N	Y	35	0		HORIZONTAL HOLE NO.ALPZ#7
DEVRAN	3	VI	5.2	153.6	DUNDEE	1987	N	Y	26	0		HORIZONTAL HOLE NO.ALPZ#6
DEVRAN	3	VI	5.8	306.6	DUNDEE	1987	N	Y	52	0		HORIZONTAL HOLE NO.ALPZ#3
DEVRAN	3	VI	6.1	137.8	DUNDEE	1987	N	Y	23	0		HORIZONTAL HOLE NO.ALPZ#9
DEVRAN	3	VI	42.2	127.5	HAMILTON-DUNDEE	1984	Y	Y	38	934		MISSING CORE
DEVRAN	3	VI	102.8	139.2	HAMILTON-LUCAS	1984	Y	Y	22	871		
DEVRAN	3	VI	175.3	305.7	DUNDEE	1987	N	Y	22	0		HORIZONTAL HOLE NO.ALPZ#4
DEVRAN	4	VI	107.0	134.2	DUNDEE	1984	N	Y	23	936		
DEVRAN	4	VII	105.3	135.3	DUNDEE	1984	N	Y	15	877		
DEVRAN	4	VII	110.6	137.8	DUNDEE	1984	N	Y	14	876		
DEVRAN	5	VII	101.0	134.1	HAMILTON-DUNDEE	1984	N	Y	23	935		
CORDEN	6	II	652.6	670.9	A1 CARBONATE-GUELPH	1968	N	Y	6	587		
DEVRAN	6	VII	108.5	143.8	DUNDEE-LUCAS	1984	N	Y	20	878		
DOME PAN AM S.W.D #1	7	BLKB	205.1	300.8	LUCAS-AMHERSTBERG	1969	Y	Y	30	228		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
DOME PAN AM RP3	8	BLKB	603.5	822.4	D SALT-A1 CARBONATE	1969	N	Y	68	670		
IMPERIAL #700 REF 11	8	RII	178.3	240.2	DUNDEE-LUCAS	1959	N	Y	20	601		
IMPERIAL STOR REF 11	11	RIV	770.8	809.5	A2 CARBONATE-A2 SALT	1961	N	Y	11	607		
IMP. SARNIA DISP.6	11	RV	1423.4	1468.2	GULL RIVER-CAMBRIAN	1965	N	Y	14	600		
MOE DEEP OBS.1	12	R4	41.2	303.0	KETTLE POINT-AMHERSTBURG	1987	N	Y	50	954		CORE DESCR. IN FILE
SUN OIL 1 STORAGE 7	20	RF	274.3	820.5	LUCAS-A1 CARBONATE	1952	N	Y	82	529		
SUN OIL 4	20	RF	757.4	807.1	SALINA	1954	N	Y	0	N/AV	N	
SUN OIL 5	20	RF	757.4	803.1	SALINA	1954	N	Y	0	N/AV	N	
DOW CHEMICAL 4	25	RF	598.9	819.9	F SHALE-A1 CARBONATE	1951	N	Y	0	LOST	N	
DOW BRINE 6	27	RF	457.2	518.2	G SHALE-B SALT	1952	N	Y	0	LOST	N	
IMPERIAL LPG CAV.5	39	RF	666.6	729.1	B SALT	1963	N	Y	9	588		
IMPERIAL #2	41	RF	633.7	730.9	SALINA	1953	N	Y	0	N/AV	N	
IMPERIAL #1	44	RF	624.8	714.5	SALINA	1953	N	Y	0	N/AV	N	
IMPERIAL DISPOSAL 3	48	RF	201.5	282.5	DEVONIAN	1960	N	Y	26	202		NO FORMATION PICKS
* TOWNSHIP SOMBRA												
ST.CLAIR H1001-A3	?	?	0.0	56.4	KETTLE POINT		N	Y	1	645		
ST.CLAIR RIV. SURVEY	?	?	51.0	54.7	KETTLE POINT		N	Y	1	639		
IMPERIAL #798	4	V	588.0	596.0	A2 SALT-A1 CARBONATE	1961	N	Y	3	623		
CORDEN ET AL	5	VII	618.7	631.9	A1 EVAPORITE-GOAT ISLAND	1969	Y	Y	4	241		
CORDEN ET AL	6	VII	614.2	629.4	A1 CARBONATE-GOAT ISLAND	1969	N	Y	5	582		
IMPERIAL #433	6	XII	550.2	691.0	A2 CARBONATE-GUELPH	1954	N	Y	45	539		
IMPERIAL #688	6	XII	650.7	672.1	GUELPH	1958	N	Y	7	620		
IMPERIAL 702 YOUNG 4	6	XII	649.2	719.5	AI CARBONATE-ROCHESTER	1959	N	Y	16	581		
IMP. 849 BECHER 75	9	V	566.9	588.3	A2 SALT-A1 CARBONATE	1963	Y	Y	6	597		
IMPERIAL BECHER 77	9	V	565.1	591.0	A2 SALT-A1 CARBONATE	1963	Y	Y	8	545		
IMPERIAL #889	11	IX	511.5	691.9	GUELPH-CABOT HEAD	1965	Y	Y	60	139		
I.O.E.	14	XIII	554.1	665.1	A2 ANHYDRITE-GOAT ISLAND	1966	Y	Y	31	412		
I.O.E. BP	14	XV	677.4	679.7	A1 EVAPORITE	1966	N	Y	1	637		MISSING CORE
RAM #90	20	V	1038.6	1053.8	COBOCONK	1986	Y	Y	13	890		
MCCLURE-UNION	22	IX	580.6	611.1	A1 CARBONATE-GUELPH	1970	N	Y	6	611		
RAM 2	23	IX	488.3	498.7	A1 CARBONATE	1968	Y	Y	4	570		472.1-478.2 CORED, LOST SLEEVES
RAM 3	23	IX	501.1	602.0	A1 CARBONATE-GASPORT	1968	Y	Y	137	818		
RAM 4	23	IX	551.6	599.2	A1 CARBONATE-GOAT ISLAND	1968	Y	Y	16	381		
BRETT-BASLEN 4	23	VII	586.7	591.3	GUELPH	1970	Y	Y	0	CO.	N	
RAM BASLEN 2	23	XI	613.3	631.5	A1 EVAPORITE-GOAT ISLAND	1969	N	Y	6	265		CORE DESCR. IN FILE
RAM 5	24	IX	497.4	592.5	A2 ANHYDRITE-GUELPH	1968	Y	Y	30	604		
RAM 6	24	X	555.7	602.0	A2 ANHYDRITE-GUELPH	1968	N	Y	0	LOST	Y	CORE DESCR. IN FILE
RAM BASLEN 1	24	XI	604.7	620.0	GUELPH-GOAT ISLAND	1969	Y	Y	5	668		
RAM BASLEN 3	24	XI	614.8	630.0	GUELPH-GOAT ISLAND	1969	N	Y	5	227		CORE DESCR. IN FILE
UNION DDH 71	30	VIII	0.0	341.1	KETTLE POINT-BOIS BLANC	1950	N	Y	0	N/AV	N	LOST HOLE. SEE DDH 74 30-VII
* TOWNSHIP WARWICK												
IMPERIAL #399	12	IIISER	107.9	120.1	DUNDEE	1953	N	Y	69	526		
IMPERIAL #399	12	IIISER	495.3	685.8	A2 CARBONATE-ROCHESTER	1953			0	526		
IMPERIAL #619	13	IIIS	553.8	588.6	GUELPH	1957	N	Y	11	410		
IMPERIAL #407	13	IIISER	535.5	622.1	A2 ANHYDRITE-GUELPH	1953	N	Y	29	140		
DEVRAN #4	26	VSER	115.7	139.1	DUNDEE	1983	N	Y	18	943		
DEVRAN #5	26	VSER	113.4	138.7	DUNDEE	1983	N	Y	22	941		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
DEVRAN #7	27	VSER	118.5	141.3	DUNDEE	1984	N	Y	17	942		
DEVRAN #8	28	VSER	116.0	143.0	DUNDEE	1983	N	Y	21	944		
** COUNTY LANARK												
* TOWNSHIP NORTH ELMSLEY												
DIAMOND DRILL HOLE 1	14	IX	0.6	72.5	MARCH-PRECAMBRIAN	1951	N	Y	21	160		
DIAMOND DRILL HOLE 2	14	IX	1.2	71.6	MARCH-PRECAMBRIAN	1951	N	Y	19	158		
** COUNTY LINCOLN												
* TOWNSHIP GRANTHAM												
IMPERIAL OIL	3	III	652.6	665.7	SHADOW LAKE-CAMBRIAN	1965	N	Y	1	391		
* TOWNSHIP NIAGARA												
IMP.ENTERP.NIAG.#878	148		689.2	716.0	CAMBRIAN-PRECAMBRIAN	1964	N	Y	2	296		MISSING CORE
* TOWNSHIP NORTH GRIMSBY												
I.O.E. #872	21	IV	742.5	746.2	CAMBRIAN	1964	N	Y	1	352		
** COUNTY MANITOULIN												
* TOWNSHIP BIDWELL												
DDH 2 ELIZABETH BAY	?	?	50.3	315.5	CABOT HEAD-CAMBRIAN	1970	N	Y	89	647		LAT.4551 LON.8246 CORE DESCR.
IMPERIAL #644	3	IX	119.5	134.6	COLLINGWOOD-COBOURG	1957	N	Y	5	251		
* TOWNSHIP COCKBURN ISLAND												
O.G.S. 85-7	16	II	32.0	521.0	AMABEL-PRECAMBRIAN	1985	N	Y	0	CO.	Y	CORE @ MNDM SAULT STE MARIE
* TOWNSHIP HOWLAND												
O.G.S. 83-5	6	V	0.0	222.9	GEORGIAN BAY-PRECAMBRIAN	1983	N	Y	0	CO.	Y	CORE @ OGS TORONTO
* TOWNSHIP ROBINSON												
BURNT ISLAND #4	30	V	0.6	40.5	GUELPH-FOSSIL HILL	1981	N	Y	0	CO.	Y	
BURNT ISLAND #5	30	VI	1.0	29.3	WIARTON-FOSSIL HILL	1981	N	Y	0	CO.	Y	
BURNT ISLAND #3	32	V	4.4	38.4	WIARTON-FOSSIL HILL	1981	N	Y	0	CO.	Y	
BURNT ISLAND #1	35	IV	1.0	45.7	WIARTON-FOSSIL HILL	1981	N	Y	0	CO.	Y	
BURNT ISLAND #2	35	V	1.0	30.5	WIARTON-FOSSIL HILL	1981	N	Y	0	CO.	Y	
** COUNTY MIDDLESEX												
* TOWNSHIP ADELAIDE												
MIDRIN MINE 3	9	IIN	68.0	534.9	HAMILTON-A1 CARBINATE	1956	N	Y	0	N/AV	N	
MIDRIN MINE 4	10	IIIN	64.6	129.2	HAMILTON-LUCAS	1956	N	Y	0	N/AV	N	
MIDRIN MINE 4	10	IIIN	359.4	576.1	SALINA-GUELPH	1956		Y	0	N/AV	N	
MIDRIN MINE 5	10	IINER	209.1	381.3	LUCAS-D SALT	1956	N	Y	0	N/AV	N	
DOLPHIN-DORTMANS 1	16	IIS	91.4	134.1	HAMILTON-LUCAS	1956	N	Y	0	N/AV	Y	

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
* TOWNSHIP CITY OF LONDON												
VICTORIA PARK	?	I	36.9	39.6	MARCELLUS-DUNDEE		N	Y	1	554		
UNIV. WEST. ONT. #4	16	III	1.5	593.8	DUNDEE-MEAFORD DUNDAS	1963	N	Y	0	N/AV	N	
* TOWNSHIP LOBO												
UNION DDH 65	2	VIII	54.3	492.3	HAMILTON-GUELPH	1950	N	Y	0	N/AV	N	
UNION DDH 68	3	IV	67.1	490.4	HAMILTON-GUELPH	1950	N	Y	0	N/AV	N	
UNION DDH 63	4	IV	61.0	499.9	HAMILTON-GUELPH	1950	N	Y	0	N/AV	N	
UNION DDH 67	6	I	39.3	452.9	HAMILTON-GUELPH	1950	N	Y	0	N/AV	N	
UNION DDH 66	8	III	84.4	449.9	HAMILTON-GUELPH	1950	N	Y	0	N/AV	N	
UNION DDH 53	8	IX	66.8	485.9	DUNDEE-GUELPH	1949	N	Y	0	N/AV	N	
UNION DDH 60	9	V	94.5	488.9	DUNDEE-GUELPH	1949	N	Y	0	N/AV	N	
UNION DDH 72	11	III	67.4	443.5	HAMILTON-GUELPH	1950	N	Y	0	N/AV	N	
* TOWNSHIP LONDON												
GOLDER ASSOC. BH 18	?	?	31.9	34.2			N	Y	1	714		PROJ. 781110
GOLDER ASSOC. BH 28	?	?	33.8	36.9			N	Y	1	715		PROJ. 781110
* TOWNSHIP MCGILLIVRAY												
CORDEN,BEARD &HARMON	4	XXVI	570.3	585.5	A1 EVAPORITE-GOAT ISLAND	1967	N	Y	5	253		
IMPERIAL #809	5	XIX	37.9	559.0	DUNDEE-GUELPH	1962	N	Y	164	220		
AMOCO	6	XV	486.0	495.2	GUELPH	1979	Y	Y	4	704		
AMOCO A-1	6	XVI	496.0	505.0	GUELPH	1979	Y	Y	2	702		
MIDRIM MINING 1	30	VIIE	21.6	390.1	DUNDEE-A2 CARBONATE	1955	N	Y	0	N/AV	N	
* TOWNSHIP METCALFE												
EARL-BOLTON 1	6	II	95.1	142.0	DUNDEE-LUCAS	1959	N	Y	0	N/AV	Y	
* TOWNSHIP MOSA												
CONS/OEC 33796	6	V	93.8	96.6	DUNDEE	1984	N	Y	11	949		
CONS/OEC 33796	6	V	107.0	115.5	DUNDEE	1984			0	949		
ALLEGANY 33, W.81	6	VI	94.5	114.0	DUNDEE	1959	Y	Y	6	256		
ALLEGANY PROD. W.112	6	VI	103.0	121.3	LUCAS	1960	Y	Y	5	302		
DOM. PET. WALKER 19	6	VI	98.1	115.5	DUNDEE	1935	N	Y	5	260		
SECORD 601	6	VI	98.1	113.4	DUNDEE	1983	Y	Y	7	894		
WALKER 502	6	VI	102.1	114.6	DUNDEE	1983	Y	Y	6	895		
DOM. PET. GILLIES 10	7	V	102.5	115.3	DUNDEE	1940	N	Y	3	282		
MITCHELL 3	7	V	113.1	122.8	DUNDEE-BOIS BLANC		N	Y	3	358		
ALLEGANY 1 GILLIES31	7	VI	100.6	113.7	DUNDEE	1955	Y	Y	2	686		MISSING CORE
SLOAN, ZOOK, GILLIES	7	VI	98.1	114.0	DUNDEE	1935	N	Y	3	281		
BRADFORD O&G 18	12	I	86.9	135.3	DUNDEE	1957	N	Y	0	N/AV	N	
BRADFORD O&G 22	13	I	88.7	140.2	DUNDEE-LUCAS	1957	N	Y	0	N/AV	N	
UNION DDH 15	27N	RIN	39.6	541.3	HAMILTON-GUELPH	1948	N	Y	0	N/AV	N	
* TOWNSHIP WEST WILLIAMS												
MARTIN #1	22	VII	0.9	37.4	HAMILTON	1985	N	Y	24	884		
* TOWNSHIP WESTMINISTER												
BLUEWATER IMP. ET AL	20	VIII	1071.7	1082.3	GULL RIVER-PRECAMBRIAN	1964	Y	Y	3	254		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
**** COUNTY NORFOLK**												
*** TOWNSHIP CHARLOTTEVILLE**												
CRAVEN-UNION 12	1	III	384.7	390.8	REYNALES-THOROLD	1976	Y	Y	0	N/AV	Y	
CRAVEN-UNION 10	2	VI	383.1	389.5	THOROLD-GRIMSBY	1976	Y	Y	0	N/AV	Y	
BLUEWATER 1 HOOVER 1	4	VII	366.1	371.9	IRONDEQUOIT-GRIMSBY	1960	Y	Y	2	101		
CRAVEN-UNION 3	19	VII	349.0	367.3	ROCHESTER-GRIMSBY	1976	Y	Y	0	LOST	Y	
U.S. STEEL DDH 1	21	I	62.8	1150.6	DUNDEE-CAMBRIAN	1952	N	Y	288	100		
U.S. STEEL DDH 2A	22	I	1058.6	1083.0	BLUE MTN-CAMBRIAN		N	Y	8	110		
U.S. STEEL DDH 3	22	I	713.8	821.3	TRENTON	1958	N	Y	18	111		OLIVER STEEL
U.S. STEEL DDH 3	22	I	1067.4	1090.6	TRENTON-CAMBRIAN	1958			0	111		
U.S. STEEL DDH 3	22	I	1108.6	1135.7	CAMBRIAN	1958			0	111		
CRAVEN-UNION 4	23	VI	342.0	348.1	REYNALES-GRIMSBY	1976	Y	Y	0	N/AV	N	
*** TOWNSHIP NORTH WALSINGHAM**												
SHAWNEE UBR-1	10	VII	399.3	412.1	THOROLD-CABOT HEAD	1970	Y	Y	4	103		
CRAVEN-UNION 11	24	VII	389.2	395.3	THOROLD-GRIMSBY	1976	Y	Y	0	N/AV	Y	
*** TOWNSHIP SOUTH WALSINGHAM**												
SHAWNEE UBR ET AL	4	A	420.6	430.4	REYNALES-GRIMSBY	1970	Y	Y	3	115		
SHAWNEE UBR	5	I	416.1	427.6	ROCHESTER-GRIBSBY	1970	Y	Y	4	104		
EX THOR-CON 10	6	I	419.7	432.8	THOROLD-CABOT HEAD	1983	Y	Y	0	CO.	Y	
CRAVEN-UNION 13	14	VI	388.9	395.0	REYNALES-GRIMSBY	1976	N	Y	2	688		
**** COUNTY NORTHUMBERLAND**												
*** TOWNSHIP MURRAY**												
CONSUMERS 31759	2	III	1.5	121.0	VERULAM-PRECAMBRIAN	1968	Y	Y	40	124		
CONSUMERS 16065	4	III	3.7	139.3	VERULAM-PRECAMBRIAN	1968	Y	Y	45	550		
CONSUMERS 16064	6	II	106.7	130.8	GULL RIVER	1968	N	Y	5	388		MISSING CORE
CONSUMERS 31758	6	III	3.7	130.1	SHERMAN FALLS-PRECAMBRIAN	1968	Y	Y	42	137		
CONSUMERS 31760	8	II	18.3	145.4	VERULAM-PRECAMBRIAN	1968	Y	Y	44	650		
CONSUMERS 16060	9	A	146.3	164.9	GULL RIVER-PRECAMBRIAN	1968	Y	Y	28	801		SLEEVES
CONSUMERS 16061	10	I	146.3	156.0	GULL RIVER-SHADOW LAKE	1968	N	Y	14	814		SLEEVES
CONSUMERS 16062	10	II	118.6	124.7	GULL RIVER	1968	N	Y	3	390		
**** COUNTY OXFORD**												
*** TOWNSHIP BLANDFORD**												
WK'HAM BAY MINES 3	3	V	867.2	880.6	COBOCONK-PRECAMBRIAN	1963	Y	Y	4	185		
KEWANEE VERO 1	4	III	893.1	901.6	SHADOW LAKE-CAMBRIAN	1965	Y	Y	1	148		
BOWLING WK'HAM BAY 4	4	V	876.3	883.6	SHADOW LAKE-PRECAMBRIAN	1964	N	Y	3	219		
WK'HAM BAY MINES 2	4	V	874.8	885.1	COBOCONK-PRECAMBRIAN	1962	Y	Y	4	144		
*** TOWNSHIP BLENHEIM**												
KEWANEE GOBLES 41	16	I	869.6	880.3	SHADOW LAKE-PRECAMBRIAN	1965	Y	Y	2	374		
KEWANEE IMP.GOBLE 28	17	II	872.9	880.9	SHADOW LAKE-PRECAMBRIAN	1964	Y	Y	3	432		
IMPERIAL #818	18	I	872.9	885.7	COBOCONK-PRECAMBRIAN	1962	Y	Y	4	534		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
KEWANEE GOBLES 24	18	I	880.0	891.8	SHADOW LAKE-PRECAMBRIAN	1964	Y	Y	3	149		
KEWANEE GOBLES 27	18	I	875.1	882.2	SHADOW LAKE-PRECAMBRIAN	1964	Y	Y	2	200		
MCMASTER & SON 6	19	I	880.9	888.2	SHADOW LAKE-CAMBRIAN	1961	N	Y	0	N/AV	N	
CDN.KEWANEE GOBLE 25	20	I	882.7	890.9	SHADOW LAKE-PRECAMBRIAN	1964	Y	Y	2	157		
IMPERIAL #788	21	I	884.2	891.8	SHADOW LAKE-PRECAMBRIAN	1961	N	Y	0	N/AV	N	
IMPERIAL #792	21	I	884.2	891.5	CAMBRIAN-PRECAMBRIAN	1961	Y	Y	2	574		
KEWANEE GOBLES 37	22	I	881.5	888.2	COBOCONK-CAMBRIAN	1964	Y	Y	2	153		
MCMASTER 13	22	I	885.7	890.0	CAMBRIAN-PRECAMBRIAN	1962	N	Y	0	N/AV	N	
KEWANEE GOBLES 30	23	I	884.5	894.3	SHADOW LAKE-PRECAMBRIAN	1964	Y	Y	3	429		
KEWANEE GOBLES 40	23	I	881.8	889.4	COBOCONK-CAMBRIAN	1964	Y	Y	3	150		
* TOWNSHIP NORTH NORWICH												
IMPERIAL #842 HILL 1	4	II	928.7	934.2	GULL RIVER-PRECAMBRIAN	1963	N	Y	2	560		
* TOWNSHIP NORTH OXFORD												
GOLDER ASSOC. BH 1	?	?	7.9	11.6			N	Y	2	738		PROJ753235 PEMBERTON ST.INGERS
GOLDER ASSOC. BH 2	?	?	9.9	13.0			N	Y	2	739		PROJ753235 PEMBERTON ST.INGERS
GOLDER ASSOC. BH 3	?	?	8.5	9.5			N	Y	1	706		PROJ753235 PEMBERTON ST.INGERS
GOLDER ASSOC. BH 4	?	?	7.9	11.9			N	Y	1	729		PROJ753235 PEMBERTON ST.INGERS
DOMTAR B'VILLE 72- 1	18	II	7.3	19.9	LUCAS		N	Y	5	920		
DOMTAR B'VILLE 72- 2	18	II	7.3	22.6	LUCAS		N	Y	5	921		
DOMTAR B'VILLE 72- 3	18	II	7.0	22.6	LUCAS		N	Y	5	922		
DOMTAR B'VILLE 72- 4	18	II	9.8	28.0	LUCAS-BOIS BLANC		N	Y	6	923		
DOMTAR B'VILLE 72- 5	18	II	4.6	23.5	LUCAS		N	Y	7	924		
DOMTAR B'VILLE 72- 6	18	II	6.7	23.5	LUCAS		N	Y	6	925		
DOMTAR B'VILLE 72- 7	18	II	8.5	23.5	LUCAS		N	Y	5	926		
DOMTAR B'VILLE 72- 8	18	II	12.8	31.1	LUCAS-BOIS BLANC		N	Y	6	927		
DOMTAR B'VILLE 72- 9	18	II	19.8	32.6	LUCAS-BOIS BLANC		N	Y	5	928		
DOMTAR B'VILLE 72-10	18	II	15.2	32.6	LUCAS-BOIS BLANC		N	Y	6	929		
DOMTAR B'VILLE 72-11	18	II	24.1	37.7	LUCAS-BOIS BLANC		N	Y	5	930		
DOMTAR B'VILLE 72-12	18	II	21.9	38.7	LUCAS-BOIS BLANC		N	Y	6	931		
DOMTAR B'VILLE 72-13	18	II	19.8	35.7	LUCAS-BOIS BLANC		N	Y	6	932		
DOMTAR B'VILLE 72-14	18	II	22.3	41.5	LUCAS-BOIS BLANC		N	Y	7	933		
* TOWNSHIP WEST ZORRA												
CCL 85-17	2	III	0.0	79.7	LUCAS-BASS ISLANDS	1985	N	Y	32	952		CORE DESCR. IN FILE
CCL 85-17	2	III	0.0	79.7	LUCAS-BASS ISLANDS	1985	N	Y	32	952		CORE DESCR. IN FILE
** COUNTY PEEL												
* TOWNSHIP CHINGUACOUSY												
M & M OIL & GAS NO.1	14	VIW	592.8	609.6	PRECAMBRIAN	1962	N	Y	0	N/AV	N	
* TOWNSHIP TORONTO												
O.G.S.83-2(CLARKSON)	33	III	2.1	495.3	DRIFT-PRECAMBRIAN	1983	N	Y	0	CO.	Y	CORE @ OGS TORONTO

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
**** COUNTY PETERBOROUGH**												
* TOWNSHIP OTONABEE												
COLLINS MCINTYRE 2	15	X	44.8	207.6	COBOURG-PRECAMBRIAN	1964	N	Y	53	159		DRILLED AT 60 DEG. ANGLE
**** COUNTY PRESCOTT**												
* TOWNSHIP CALEDONIA												
KENNEDY-MCGRIMMON 1	GOR	VIII	53.3	556.3	COBOCONK-NEPEAN	1959	N	Y	147	154		
* TOWNSHIP EAST HAWKESBURY												
WESTROC CR 10	?	?	1.0	152.7	ST. MARTIN-OXFORD		N	Y	46	788		
* TOWNSHIP WEST HAWKESBURY												
WESTROC CR 8	?	?	7.6	152.4	ST. MARTIN-OXFORD		N	Y	46	797		
WESTROC CR 9	?	?	12.8	152.7	ST. MARTIN-OXFORD		N	Y	44	798		
**** COUNTY PRINCE EDWARD**												
* TOWNSHIP AMELIASBURGH												
ROBLIN LAKE #1	82	III	34.4	41.1	TRENTON	1963	N	Y	2	418		
CONSUMERS 11943	96	IV	171.6	179.5	CAMBRIAN	1967	N	Y	8	847		SLEEVES
* TOWNSHIP ATHOL												
CONSUMERS 11945	5	IS	246.0	262.4	GULL RIVER	1967	N	Y	12	850		SLEEVES
GSC-1 WICKED PT.PICT	27	I	3.7	299.0	COBOURG-PRECAMBRIAN	1964	N	Y	99	562		CONSUMERS 4715
* TOWNSHIP SOUTH MARYSBURGH												
BELLEVILLE PICTON #2	?	?	37.3	44.8	TRENTON	1963	N	Y	4	248		LK. OF THE MTN. 8KM. NE PICTON
BELLEVILLE PICTON #3	?	?	2.4	5.2	TRENTON	1963	N	Y	0	248		LK. OF THE MTN. 8KM. NE PICTON
BELLEVILLE PICTON #4	?	?	2.5	3.7	TRENTON	1963	N	Y	0	248		LK. OF THE MTN. 8KM. NE PICTON
BELLEVILLE PICTON #5	?	?	6.2	7.7	TRENTON	1963	N	Y	0	248		LK. OF THE MTN. 8KM. NE PICTON
BELLEVILLE PICTON #6	?	?	13.5	16.0	TRENTON	1963	N	Y	0	248		LK. OF THE MTN. 8KM. NE PICTON
SP 1085	?	?	2.1	18.0	TRENTON		N	Y	22	837		SLEEVES
SP 1086 DPW	?	?	2.4	12.5	TRENTON		N	Y	3	372		
**** COUNTY RUSSELL**												
* TOWNSHIP RUSSELL												
CONSUMERS 16307	13	II	701.0	710.2	CAMBRIAN	1968	Y	Y	3	389		
CONSUMERS 16308	14	I	621.2	810.8	CAMBRIAN-PRECAMBRIAN	1968	Y	Y	27	380		MISSING CORE
CONSUMERS 16310	14	II	714.5	722.7	PRECAMBRIAN	1968	Y	Y	12	807		SLEEVES
CONSUMERS 16309	15	I	694.9	719.9	CAMBRIAN-PRECAMBRIAN	1968	Y	Y	34	815		SLEEVES
CONSUMERS 16321	16	I	686.7	704.1	CAMBRIAN	1969	Y	Y	3	387		
CONSUMERS 16050	17	I	658.4	702.6	CAMBRIAN	1968	Y	Y	40	806		SLEEVES, 673.3-690.1 MISSING
CONSUMERS 12417	18	II	722.4	748.9	CAMBRIAN	1967	Y	Y	24	854		SLEEVES, MISSING CORE
GSC #2	24	II	14.0	835.2	QUEENSTON-CAMBRIAN	1964	N	Y	263	151		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
**** COUNTY STORMONT**												
*** TOWNSHIP CORNWALL**												
CORNWALL CENTRE	?	?	6.4	31.1	ROCKLIFFE		N	Y	5	571		MISSING CORE
ST. LAWRENCE DDH#770	18	IV	6.1	31.1	TRENTON	1954	N	Y	8	242		CORNWALL CENTRE, CORE DESCR.
ST. LAWRENCE DDH#744	19	VIII	7.0	62.8	TRENTON	1954	N	Y	19	231		BONVILLE, CORE DESCR. IN FILE
ST. LAWRENCE DDH#760	26	VI	3.4	60.7	TRENTON	1954	N	Y	18	392		BLACK RIVER, CORE DESCR.
**** COUNTY WELLAND**												
*** TOWNSHIP FORT ERIE**												
PROJECT H598 DC-1	?	?	19.5	35.3	SALINA		N	Y	6	324		
PROJECT H598 DC-2	?	?	15.2	31.6	SALINA		N	Y	6	319		
PROJECT H598 DC-3	?	?	16.8	32.2	SALINA		N	Y	5	321		
PROJECT H598 DC-4	?	?	18.9	34.2	SALINA		N	Y	10	320		
PROJECT H598 DC-5	?	?	7.0	17.2	SALINA		N	Y	4	395		
PROJECT H598 DC-6	?	?	2.4	25.6	SALINA		N	Y	8	394		
PROJECT H598 DC-7	?	?	7.2	31.1	SALINA		N	Y	8	195		
*** TOWNSHIP HUMBERSTONE**												
BORING-3 GSC-DPW	1	III	6.7	11.3	SALINA		N	Y	2	660		
GSC BORING G-1	1	V	24.1	28.7	SALINA		N	Y	2	669		MISSING CORE
CONSUMERS 32274	31	III	44.2	233.8	E CARBONATE-QUEENSTON	1974	Y	Y	61	555		
CONSUMERS 32273	32	III	45.7	233.8	E CARBONATE-QUEENSTON	1974	Y	Y	61	512		
*** TOWNSHIP STAMFORD**												
NIAGARA BRIDGE 1	?	?	1.5	61.0	GASPORT-GRIMSBY		N	Y	16	859		
*** TOWNSHIP WAINFLEET**												
CONSUMERS 32271	2	III	33.5	230.7	E CARBONATE-QUEENSTON	1974	Y	Y	65	173		
CONSUMERS 32272	2	III	53.6	238.0	E CARBONATE-QUEENSTON	1973	Y	Y	62	126		
CONSUMERS 32267	5	III	53.0	233.5	E CARBONATE-QUEENSTON	1973	Y	Y	58	513		
CONSUMERS 32268	5	III	42.7	232.6	E CARBONATE-QUEENSTON	1974	Y	Y	63	293		
CONSUMERS 32262	9	II	59.4	239.9	E CARBONATE-QUEENSTON	1974	Y	Y	61	561		CORE DESCR. IN FILE
CONSUMERS 32266	9	II	50.3	239.6	E CARBONATE-QUEENSTON	1974	Y	Y	62	141		
CONSUMERS 32265	9	III	50.6	232.3	E CARBONATE-QUEENSTON	1974	Y	Y	60	552		
CONSUMERS 32264	12	III	53.0	228.0	C SHALE-QUEENSTON	1974	Y	Y	59	553		
CONSUMERS 32261	13	II	44.5	239.9	E CARBONATE-QUEENSTON	1974	Y	Y	66	179		
**** COUNTY WELLINGTON**												
*** TOWNSHIP GUELPH**												
DOMTAR BRACEY 70-5	17	B	11.3	45.4	GUELPH		N	Y	12	903		
DOMTAR BRACEY 70-6	17	B	9.8	45.7	GUELPH		N	Y	12	904		
DOMTAR BRACEY 70-1	18	B	5.5	46.6	GUELPH		N	Y	12	899		
DOMTAR BRACEY 70-2	18	B	5.2	46.0	GUELPH		N	Y	14	900		
DOMTAR BRACEY 70-3	18	B	2.7	46.3	GUELPH		N	Y	15	901		
DOMTAR BRACEY 70-4	18	B	0.0	45.1	GUELPH		N	Y	12	902		
DOMTAR BRACEY 70-7	18	B	7.0	45.7	GUELPH		N	Y	13	905		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
* TOWNSHIP PUSLINCH												
DOMTAR HESP. QUAR 59	1	IV	7.0	30.5	GUELPH		N	Y	8	898		
DOMTAR HESP. QUAR 21	2	IV	7.6	54.6	GUELPH		N	Y	13	896		
DOMTAR HESP. QUAR 35	3	IV	1.5	29.4	GUELPH		N	Y	9	897		
** COUNTY WENTWORTH												
* TOWNSHIP GLANFORD												
I.O.E.	9	III	769.3	773.6	CAMBRIAN-PRECAMBRIAN	1966	N	Y	1	340		
* TOWNSHIP SALTFLEET												
IMPERIAL #891	11	I	592.8	607.6	GULL RIVER-PRECAMBRIAN	1965	N	Y	5	259		
* TOWNSHIP WEST FLANBOROUGH												
IMPERIAL #834	1	III	723.9	726.0	SHADOW LAKE	1963	N	Y	1	338		
** COUNTY YORK												
* TOWNSHIP CITY OF TORONTO												
IMPERIAL OIL CNE #1	?	?	144.8	302.7	MEAFORD DUNDAS-TRENTON	1948	N	Y	4	544		MISSING CORE
* TOWNSHIP MARKHAM												
MURRAY LITTLE 1	28	VII	93.0	217.6	MEAFORD DUNDAS-VERULAM	1965	N	Y	11	551		MISSING CORE
* TOWNSHIP NORTH GWILLIMBURY												
SUNDERLAND OILS	11	VIII	59.4	190.5	TRENTON-PRECAMBRIAN	1943	N	Y	0	N/AV	N	
** COUNTY LAKE ERIE												
* TOWNSHIP												
ANSCHUTZ	5	X	245.4	263.7	IRONDEQUOIT-GRIMSBY	1975	Y	Y	9	677		
ANSCHUTZ	5	X	278.9	286.2	CABOT HEAD-WHIRLPOOL	1975			0	677		
ANSCHUTZ	6	R	241.7	270.7	IRONDEQUOIT-GRIMSBY	1975	Y	Y	11	656		
ANSCHUTZ	6	R	281.0	286.2	WHIRLPOOL-QUEENSTON	1975			0	656		
ANSCHUTZ	7	Y	264.3	276.5	GRIMSBY-CABOT HEAD	1974	Y	Y	5	107		
ANSCHUTZ	7	Y	281.3	287.7	WHIRLPOOL-QUEENSTON	1974			0	107		
ANSCHUTZ	8	V	242.3	269.7	IRONDEQUOIT-CABOT HEAD	1975	Y	Y	11	679		
ANSCHUTZ	8	V	280.4	286.2	WHIRLPOOL-QUEENSTON	1975			0	679		
LONG POINT PT.DOV.1	14	S	278.6	294.4	REYNALES-GRIMSBY	1958	Y	Y	5	112		
LONG POINT PT.DOV.3	14	S	312.2	317.9	MANITOULIN-QUEENSTON	1958	N	Y	2	108		
LONG POINT PT.DOV.4	14	U	278.0	296.0	IRONDEQUOIT-CABOT HEAD	1958	N	Y	6	109		
PLACE DOVER 2A	14	W	279.8	324.9	ROCHESTER-QUEENSTON	1958	N	Y	8	125		
PLACE ANSCHUTZ	19	L	266.1	286.2	REYNALES-CABOT HEAD	1975	Y	Y	6	682		
ANSCHUTZ	19	U	294.1	312.4	REYNALES-GRIMSBY	1975	Y	Y	8	681		
ANSCHUTZ	19	U	326.1	333.5	CABOT HEAD-WHIRLPOOL	1975			0	681		
PLACE ANSCHUTZ	19	X	288.0	306.3	REYNALES-CABOT HEAD	1975	Y	Y	6	683		
ANSCHUTZ	20	D	245.7	263.7	THOROLD-CABOT HEAD	1975	Y	Y	6	609		
EL PASO 03-36	20	V	288.3	304.2	THOROLD-GRIMSBY	1962	Y	Y	0	N/AV	Y	

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
EL PASO 03-35	20	W	288.3	304.2	GRIMSBY	1962	N	Y	0	LOST	N	
EL PASO 03-38	20	X	292.3	301.8	GRIMSBY	1962	Y	Y	0	N/AV	Y	
EL PASO 89-3	21	P	264.6	280.4	THOROLD-WHIRLPOOL	1960	N	Y	0	N/AV	N	
ANSCHUTZ	21	W	289.0	307.2	REYNALES-GRIMSBY	1975	Y	Y	9	678		BOXES MARKED BLOCK 5 TRACT X
ANSCHUTZ	21	W	319.7	328.9	CABOT HEAD-QUEENSTON	1975			0	678		
ANSCHUTZ	22	S	264.9	328.9	ROCHESTER-QUEENSTON	1974	Y	Y	21	229		
ANSCHUTZ	23	S	286.5	304.5	REYNALES-GRIMSBY	1975	Y	Y	8	680		
ANSCHUTZ	23	S	320.0	326.1	CABOT HEAD-WHIRLPOOL	1975			0	680		
ANSCHUTZ	23	Y	309.4	326.4	REYNALES-GRIMSBY	1975	Y	Y	8	676		
ANSCHUTZ	23	Y	339.9	349.0	CABOT HEAD-WHIRLPOOL	75			0	676		
CPOG 2A	24	U	219.5	232.3	A2 CARBONATE-GUELPH	1969	Y	Y	15	648		
CPOG 2A	24	U	313.0	320.0	REYNALES-GRIMSBY	1969			0	648		
CPOG 2A	24	U	344.4	350.2	CABOT HEAD	1969			0	648		
CPOG 2A	24	U	902.2	917.4	COBOURG	1969			0	648		
CPOG 2A	24	U	1112.5	1115.1	GULL RIVER	1969			0	648		
CONSUMERS 31988	26	K	319.4	337.7	GRIMSBY-WHIRLPOOL	1974	Y	Y	6	215		
CONSUMERS 31987	27	F	321.6	330.7	CABOT HEAD-WHIRLPOOL	1974	Y	Y	1	249		MISSING CORE
CONSUMERS 31841	27	G	320.0	331.3	CABOT HEAD-WHIRLPOOL	1970	Y	Y	4	240		
PEMBINA #3	39	W	358.0	375.0	THOROLD-GRIMSBY	1984	Y	Y	36	915		SLEEVES
PEMBINA #3	39	W	392.8	402.3	CABOT HEAD-QUEENSTON	1984			0	915		
PEMBINA #2	41	J	302.5	319.6	REYNALES-GRIMSBY	1983	Y	Y	14	869		
PEMBINA 3	41	P	324.0	343.1	REYNALES-GRIMSBY	1982	Y	Y	9	773		
PEMBINA #2	41	V	331.0	341.0	THOROLD-CABOT HEAD	1985	Y	Y	8	885		
PEMBINA #2	42	F	301.0	313.5	REYNALES-GRIMSBY	1983	Y	Y	16	867		
PEMBINA #2	42	F	337.3	345.9	CABOT HEAD-QUEENSTON	1983			0	867		
EL PASO 04-25	43	F	298.1	313.3	THOROLD-CABOT HEAD	1962	Y	Y	0	N/AV	Y	
EL PASO 09-20	44	H	305.1	345.0	THOROLD-QUEENSTON	1962	Y	Y	0	N/AV	Y	
EL PASO 82-28	44	J	306.0	319.7	REYNALES-GRIMSBY	1962	Y	Y	0	N/AV	Y	
MITCHELL 750-56	44	S	320.0	346.9	REYNALES-CABOT-HEAD	1965	N	Y	24	831		SLEEVES
PLACE MITCHELL	45	E	180.0	291.0	A1 CARBONATE-GRIMSBY	1980	N	Y	0	N/AV	N	
PLACE MITCHELL	45	E	1014.0	1111.0	CAMBRIAN-PRECAMBRIAN	1980			0	N/AV	N	
MITCHELL 623-26	45	N	301.6	315.8	GRIMSBY	1965	N	Y	4	373		
M & M 202-13	45	T	311.2	333.5	REYNALES-CABOT HEAD	1963	N	Y	24	845		SLEEVES
PLACE RYERSE 7	47	E	310.0	323.7	GRIMSBY-CABOT HEAD	1958	N	Y	0	N/AV	N	
CONS. AMOCO 13076	51	A	66.1	495.9	DUNDEE-QUEENSTON	1969	Y	Y	0	CO.	Y	CONS.
CONS. PAN AM 13033	52	K	360.3	378.6	A1 CARBONATE-GUELPH	1968	Y	Y	5	226		
CONS. ANSCHUTZ 13311	53	Y	359.7	395.6	A2 CARBONATE-GUELPH	1974	N	Y	17	355		
CONS. ANSCHUTZ 13311	53	Y	477.0	492.9	CABOT HEAD	1974			0	355		
CONS. PAN AM 13057	56	E	76.2	462.4	DUNDEE-QUEENSTON	1969	Y	Y	0	CO.	Y	CONS.
CONSUMERS 13707	56	P	325.0	343.4	A1 CARBONATE-GUELPH	1980	Y	Y	0	CO.	Y	CONS.
CONSUMERS 13315	56	R	440.7	456.0	REYNALES-CABOT HEAD	1975	Y	Y	5	674		
CONSUMERS 13316	57	V	435.9	453.5	REYNALES-CABOT HEAD	1975	Y	Y	6	687		
CONS. PAN AM 13058	58	R	88.4	240.8	DUNDEE-E CARBONATE	1969	Y	Y	0	CO.	Y	CONS.
PEMBINA #4	62	T	387.7	407.3	THOROLD-CABOT HEAD	1985	Y	Y	27	914		SLEEVES
C.W.P. 68-6	63	D	359.4	378.0	THOROLD-CABOT HEAD	1968	Y	Y	25	829		SLEEVES
C.W.P. 68-5	63	G	366.4	378.6	GRIMSBY-CABOT HEAD	1968	Y	Y	14	846		SLEEVES
PEMBINA #2	64	P	417.0	421.6	CABOT HEAD-QUEENSTON	1984	Y	Y	7	917		SLEEVES
PEMBINA 3	64	S	383.3	400.3	THOROLD-GRIMSBY	1982	Y	Y	14	775		
PEMBINA #2	65	E	330.0	347.5	GRIMSBY-CABOT HEAD	1984	Y	Y	24	916		SLEEVES

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
PEMBINA #1	65	Q	367.6	385.9	REYNALES-GRIMSBY	1985	Y	Y	16	886		
PEMBINA 4	67	F	356.5	401.0	THOROLD-QUEENSTON	1982	Y	Y	18	774		
PEMBINA #2A	68	Q	380.0	398.3	REYNALES-GRIMSBY	1984	Y	Y	34	919		SLEEVES
PEMBINA #2A	68	Q	422.5	428.7	WHIRLPOOL-QUEENSTON	1984			0	919		
PEMBINA #1	69	Q	384.5	407.3	IRONDEQUOIT-GRIMSBY	1984	Y	Y	24	918		SLEEVES
PEMBINA 2	70	G	360.8	386.6	REYNALES-CABOT HEAD	1982	Y	Y	13	776		
ANSCHUTZ B	89	D	402.3	406.0	ROCHESTER	1974	Y	Y	11	106		
ANSCHUTZ B	89	D	413.0	431.3	THOROLD-GRIMSBY	1974			0	106		
ANSCHUTZ B	89	D	446.2	461.2	CABOT HEAD-QUEENSTON	1974			0	106		
PEMBINA #4	89	K	435.3	451.0	GRIMSBY-CABOT HEAD	1983	Y	Y	18	870		
PEMBINA #4	91	S	435.5	452.5	REYNALES-GRIMSBY	1983	Y	Y	14	868		
ANSCHUTZ	92	N	433.7	470.3	GRIMSBY-QUEENSTON	1974	Y	Y	13	371		
CONS. PAN AM 13047	93	W	455.7	467.9	REYNALES-GRIMSBY	1969	Y	Y	15	822		SLEEVES
CONSUMERS 13300	94	K	435.3	453.5	REYNALES-CABOT HEAD	1974	Y	Y	6	360		
CONSUMERS 13170	94	M	439.8	458.1	THOROLD-CABOT HEAD	1972	Y	Y	6	438		
CONS. AMOCO 13061	95	H	113.7	471.5	DUNDEE-QUEENSTON	1969	Y	Y	0	CO.	Y	CONS.
CONSUMERS 13321	95	K	436.5	454.3	THOROLD-CABOT HEAD	1975	Y	Y	6	662		
CONSUMERS 13150	95	P	451.4	469.7	THOROLD-CABOT HEAD	1972	Y	Y	6	346		
CONSUMERS 13280	95	Q	451.7	470.0	THOROLD-CABOT HEAD	1974	Y	Y	6	366		
CONSUMERS 13327	95	U	459.0	477.3	THOROLD-CABOT HEAD	1975	Y	Y	7	664		
CONSUMERS 13097	95	W	455.1	473.7	REYNALES-CABOT HEAD	1971	Y	Y	6	278		
CONSUMERS 13096	95	X	452.0	470.0	THOROLD-CABOT HEAD	1971	Y	Y	5	325		
CONSUMERS 13725	95	Y	453.0	470.1	THOROLD-CABOT HEAD	1980	Y	Y	15	748		
CONS. AMOCO 13102	96	D	100.6	473.7	DUNDEE-QUEENSTON	1969	Y	Y	0	CO.	Y	CONS.
CONS. PAN AM 13060	96	L	438.9	457.2	GASPORT-REYNALES	1969	N	Y	6	384		
CONSUMERS 13149	96	U	456.6	467.6	THOROLD-GRIMSBY	1972	Y	Y	3	433		
CONSUMERS 13148	96	V	462.4	480.7	REYNALES-CABOT HEAD	1972	Y	Y	6	341		
CONSUMERS 13098	96	W	468.8	486.2	REYNALES-CABOT HEAD	1971	Y	Y	6	102		
CONSUMERS 13317	97	C	440.4	458.7	REYNALES-CABOT HEAD	1975	Y	Y	6	684		
CONSUMERS 13706	97	E	342.0	360.0	A2 CARBONATE-GUELPH	1980	N	Y	0	N/AV	N	
CONS. PAN AM 13059	97	P	470.9	485.7	REYNALES-CABOT HEAD	1969	Y	Y	18	833		SLEEVES
CONSUMERS 13323	97	Y	477.3	495.6	THOROLD-CABOT HEAD	1975	Y	Y	6	685		
CONSUMERS 13081	98	P	470.9	484.6	THOROLD-CABOT HEAD	1971	Y	Y	4	332		
CONS. PAN AM 13067	98	Y	472.4	486.2	REYNALES-GRIMSBY	1969	Y	Y	17	813		SLEEVES
CONSUMERS 13216	99	I	464.8	483.1	THOROLD-CABOT HEAD	1973	Y	Y	6	349		
CONSUMERS 13169	99	K	469.4	486.5	THOROLD-CABOT HEAD	1972	Y	Y	6	345		
CONSUMERS 13218	99	W	481.6	499.9	THOROLD-CABOT HEAD	1973	Y	Y	6	316		
CONS. AMOCO 13093	100	A	451.7	457.5	REYNALES-GRIMSBY	1969	N	Y	0	LOST	N	NO RECOVERY OF CORE
CONSUMERS 13040	100	F	475.5	491.9	REYNALES-CABOT HEAD	1970	N	Y	6	209		
CONSUMERS 13118	100	H	467.0	481.6	THOROLD-CABOT HEAD	1970	Y	Y	5	136		
CONS. PAN AM 13034	100	I	460.9	479.1	REYNALES-CABOT HEAD	1968	Y	Y	22	824		SLEEVES
CONS. PAN AM 13056	100	J	462.7	478.8	REYNALES-CABOT HEAD	1968	Y	Y	19	832		SLEEVES
CONSUMERS 13050	100	J	459.6	474.0	REYNALES-CABOT HEAD	1970	Y	Y	5	181		
CONSUMERS 13029	100	O	481.3	495.6	REYNALES-GRIMSBY	1970	Y	Y	5	415		
CONSUMERS 13119	100	P	483.1	498.7	THOROLD-CABOT HEAD	1970	Y	Y	5	236		
CONS. PAN AM 13035	101	K	475.5	500.8	ROCHESTER-GRIMSBY	1968	Y	Y	34	834		SLEEVES
CONS. PAN AM 13038	102	B	475.5	492.9	REYNALES-CABOT HEAD	1968	Y	Y	23	805		SLEEVES
CONS. PAN AM 13005	103	L	487.7	506.0	ROCHESTER-CABOT HEAD	1967	N	Y	15	184		
CONS. AMOCO 13104	103	P	410.0	428.2	A1 CARBONATE-GUELPH	1969	Y	Y	6	655		CONS. 13014 ON BOXES

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
CONS. PAN AM 13054	106	D	444.4	462.7	A1 CARBONATE-GUELPH	1968	Y	Y	7	566		
CONS. PAN AM 13048	111	H	484.6	502.9	A1 CARBONATE-GUELPH	1968	Y	Y	25	842		SLEEVES
CONS. PAN AM 13009	111	S	520.0	549.2	A1 CARBONATE-GUELPH	1967	Y	Y	10	270		
CONS. AMOCO 13103	112	J	477.3	501.1	GUELPH-GOAT ISLAND	1969	Y	Y	7	651		
CONS. PAN AM 13030	113	C	461.8	480.1	GUELPH	1968	Y	Y	6	568		
CONS. PAN AM 13008	113	U	496.2	514.5	GUELPH	1967	Y	Y	23	826		SLEEVES
CONS. PAN AM 13036	118	M	506.3	523.6	ROCHESTER-CABOT HEAD	1968	Y	Y	23	808		SLEEVES
CONSUMERS 13111	118	U	406.0	424.3	A1 CARBONATE-GUELPH	1971	Y	Y	6	335		
CONS. PAN AM 13053	119	A	517.0	527.3	GRIMSBY-CABOT HEAD	1968	Y	Y	12	855		SLEEVES
CONSUMERS 13064	119	L	511.5	529.7	REYNALES-CABOT HEAD	1971	Y	Y	6	280		
CONSUMERS 13079	119	P	393.8	421.1	GUELPH	1971	Y	Y	9	232		
CONSUMERS 13112	119	P	523.3	541.6	REYNALES-CABOT HEAD	1971	Y	Y	6	283		
CONS. AMOCO 13074	119	S	518.2	529.4	REYNALES-GRIMSBY	1969	Y	Y	3	194		
CONSUMERS 13055	119	U	516.9	535.2	REYNALES-CABOT HEAD	1971	Y	Y	6	169		
CONSUMERS 13115	119	W	525.8	538.6	REYNALES-GRIMSBY	1971	Y	Y	4	235		
CONSUMERS 13120	119	X	398.1	411.2	A1 CARBONATE-ROCHESTER	1971	Y	Y	4	307		
CONSUMERS 13110	119	Y	395.3	425.8	A1 CARBONATE-GUELPH	1971	Y	Y	16	244		
CONSUMERS 13110	119	Y	532.8	551.1	REYNALES-CABOT HEAD	1971			0	244		
CONSUMERS 13217	120	H	494.7	513.0	GRIMSBY-CABOT HEAD	1973	Y	Y	6	317		
CONS. AMOCO 13075	120	Q	501.7	513.9	REYNALES-GRIMSBY	1969	Y	Y	3	216		
CONSUMERS 13013	120	S	498.7	516.3	REYNALES-CABOT HEAD	1970	Y	Y	6	289		
CONSUMERS 13016	120	T	502.3	516.3	REYNALES-CABOT HEAD	1970	Y	Y	5	294		
CONS. AMOCO 13105	120	U	391.7	410.0	A2 CARBONATE-GUELPH	1969	Y	Y	6	649		
CONSUMERS 13012	120	W	505.7	521.8	REYNALES-CABOT HEAD	1970	Y	Y	6	407		
CONSUMERS 13082	120	W	503.5	521.8	REYNALES-CABOT HEAD	1970	Y	Y	6	211		
CONSUMERS 13080	120	Y	515.1	529.7	REYNALES-GRIMSBY	1970	Y	Y	5	214		
CONSUMERS 13224	121	A	471.8	488.9	THOROLD-CABOT HEAD	1973	Y	Y	5	189		
CONSUMERS 13277	121	B	468.8	481.3	REYNALES-GRIMSBY	1974	Y	Y	4	375		
CONSUMERS 13206	121	I	483.1	501.4	THOROLD-CABOT HEAD	1972	Y	Y	5	190		
CONS. PAN AM 13020	121	O	416.1	434.3	GUELPH-GOAT ISLAND	1967	Y	Y	23	816		SLEEVES
CONSUMERS 13125	121	X	516.0	531.9	REYNALES-CABOT HEAD	1970	Y	Y	5	122		
CONSUMERS 13024	121	Y	505.1	523.3	REYNALES-CABOT HEAD	1970	Y	Y	6	406		
CONSUMERS 13198	122	A	480.1	498.3	REYNALES-CABOT HEAD	1972	Y	Y	6	210		
CONSUMERS 13229	122	A	475.5	490.7	REYNALES-CABOT HEAD	1973	Y	Y	5	411		
CONSUMERS 13213	122	B	482.5	500.2	REYNALES-CABOT HEAD	1973	Y	Y	6	208		
CONSUMERS 13151	122	H	483.7	502.0	THOROLD-CABOT HEAD	1972	Y	Y	6	431		
CONSUMERS 13289	122	H	477.6	495.9	REYNALES-CABOT HEAD	1974	Y	Y	6	370		
CONSUMERS 13099	122	I	485.2	503.5	REYNALES-CABOT HEAD	1971	Y	Y	6	277		
CONSUMERS 13152	122	I	477.3	495.6	THOROLD-CABOT HEAD	1972	Y	Y	5	310		
CONSUMERS 13153	122	J	472.7	501.4	ROCHESTER-CABOT HEAD	1972	Y	Y	9	273		
CONSUMERS 13283	122	J	470.3	488.6	REYNALES-CABOT HEAD	1974	Y	Y	6	520		
CONSUMERS 13214	122	L	490.7	509.0	THOROLD-CABOT HEAD	1973	Y	Y	6	188		
CONS. AMOCO 13063	122	Q	493.8	505.4	THOROLD-GRIMSBY	1969	Y	Y	4	631		
CONSUMERS 13228	122	T	496.8	513.6	REYNALES-GRIMSBY	1973	Y	Y	5	313		
CONSUMERS 13231	122	U	511.8	530.0	THOROLD-CABOT HEAD	1973	Y	Y	6	315		
CONSUMERS 13276	122	U	502.9	521.2	REYNALES-GRIMSBY	1974	Y	Y	6	353		
CONSUMERS 13130	123	A	470.0	488.3	REYNALES-CABOT HEAD	1971	Y	Y	6	279		
CONSUMERS 13294	123	D	475.2	493.5	THOROLD-CABOT HEAD	1974	Y	Y	6	364		
CONSUMERS 13292	123	E	470.9	487.7	REYNALES-CABOT HEAD	1974	Y	Y	5	425		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
CONSUMERS 13237	123	F	513.6	528.8	CABOT HEAD-QUEENSTON	1973	Y	Y	4	191		ANAL. & CARD READ 477.6-492.6
CONSUMERS 13147	123	H	483.7	502.0	THOROLD-CABOT HEAD	1972	Y	Y	6	264		
CONSUMERS 13195	123	I	477.0	495.3	REYNALES-CABOT HEAD	1972	Y	Y	6	304		
CONSUMERS 13092	123	J	475.5	493.8	THOROLD-CABOT HEAD	1971	Y	Y	6	271		
CONSUMERS 13128	123	J	477.9	495.6	REYNALES-GRIMSBY	1971	Y	Y	6	327		
CONSUMERS 13129	123	L	487.7	506.0	GRIMSBY-CABOT HEAD	1971	Y	Y	5	176		
CONSUMERS 13221	123	O	490.7	509.0	THOROLD-CABOT HEAD	1973	Y	Y	6	350		
CONS. PAN AM 13044	123	R	505.4	523.3	GRIMSBY-CABOT HEAD	1968	Y	Y	24	809		SLEEVES
CONSUMERS 13089	123	T	486.5	504.7	REYNALES-GRIMSBY	1971	Y	Y	6	306		
CONSUMERS 13088	123	U	500.3	518.5	REYNALES-CABOT HEAD	1971	Y	Y	5	290		
CONSUMERS 13295	123	Y	510.8	529.1	REYNALES-GRIMSBY	1974	Y	Y	5	549		
CONSUMERS 13905	124	B	338.0	352.7	A2 CARBONATE-GUELPH	1987	Y	Y	12	951		
CONSUMERS 13094	124	C	468.5	486.8	THOROLD-CABOT HEAD	1971	Y	Y	6	168		
CONS. PAN AM 13062	124	D	467.9	484.8	THOROLD-CABOT HEAD	1969	Y	Y	18	848		SLEEVES
CONSUMERS 13045	124	D	458.7	473.2	REYNALES-GRIMSBY	1970	Y	Y	5	230		
CONSUMERS 13043	124	E	458.7	471.2	THOROLD-GRIMSBY	1970	Y	Y	4	116		
CONSUMERS 13114	124	F	474.0	490.7	REYNALES-GRIMSBY	1970	Y	Y	6	276		
CONSUMERS 13117	124	G	481.6	499.9	REYNALES-CABOT HEAD	1970	Y	Y	6	272		
CONSUMERS 13132	124	G	476.1	494.4	REYNALES-GRIMSBY	1971	Y	Y	6	441		
CONSUMERS 13154	124	N	363.0	381.0	A1 CARBONATE-GUELPH	1972	Y	Y	12	449		369.1-371.9 MISSING
CONSUMERS 13154	124	N	485.2	503.5	REYNALES-CABOT HEAD	1972			0	449		
CONSUMERS 13090	124	O	478.5	496.8	THOROLD-CABOT HEAD	1971	Y	Y	5	311		
CONSUMERS 13095	124	P	480.1	497.4	REYNALES-CABOT HEAD	1970	Y	Y	5	213		
CONSUMERS 13331	124	V	497.4	515.7	REYNALES-CABOT HEAD	1975	Y	Y	6	672		
CONSUMERS 13049	124	X	487.7	503.2	THOROLD-CABOT HEAD	1970	Y	Y	5	291		
CONS. AMOCO 13066	124	Y	495.0	510.1	THOROLD-CABOT HEAD	1969	Y	Y	16	835		SLEEVES
CONSUMERS 13046	124	Y	492.3	503.8	REYNALES-GRIMSBY	1970	Y	Y	4	206		
CONSUMERS 13328	125	A	455.7	474.0	REYNALES-CABOT HEAD	1975	Y	Y	6	665		
CONSUMERS 13279	125	D	471.8	490.1	REYNALES-CABOT HEAD	1974	Y	Y	6	362		
CONSUMERS 13329	125	F	475.5	493.8	REYNALES-CABOT HEAD	1975	Y	Y	6	663		
CONSUMERS 13314	125	J	474.0	491.6	REYNALES-GRIMSBY	1974	Y	Y	6	376		
CONSUMERS 13330	125	N	488.3	505.8	REYNALES-GRIMSBY	1975	Y	Y	6	673		
CONSUMERS 13285	125	W	509.6	527.9	REYNALES-CABOT HEAD	1974	Y	Y	6	422		
CONSUMERS 13278	126	E	474.9	493.3	REYNALES-GRIMSBY	1974	Y	Y	6	361		
CONSUMERS 13168	126	F	481.0	499.3	THOROLD-GRIMSBY	1972	Y	Y	5	297		
CONSUMERS 13312	126	G	477.9	496.2	REYNALES-CABOT HEAD	1974	Y	Y	6	378		
CONS. AMOCO 13100	126	P	493.2	510.6	THOROLD-GRIMSBY	1969	Y	Y	20	825		SLEEVES
CPOG #1	131	G	475.2	489.2	THOROLD-GRIMSBY	1970	Y	Y	11	146		
CPOG #1	131	G	512.1	521.2	CABOT HEAD-QUEENSTON	1970			0	146		
CONSUMERS 13313	152	A	509.0	528.5	REYNALES-CABOT HEAD	1974	Y	Y	6	356		
CONSUMERS 13185	152	B	517.6	534.9	REYNALES-GRIMSBY	1972	Y	Y	5	295		
CONSUMERS 13167	152	N	541.0	559.0	THOROLD-CABOT HEAD	1972	Y	Y	6	336		
CONS. AMOCO 13101	152	Y	556.3	572.1	REYNALES-CABOT HEAD	1969	Y	Y	17	849		SLEEVES
CONSUMERS 13197	153	H	526.7	545.0	THOROLD-CABOT HEAD	1972	Y	Y	5	274		
CONSUMERS 13307	153	J	521.2	539.5	THOROLD-CABOT HEAD	1974	Y	Y	7	369		
CONSUMERS 13296	154	E	513.6	531.9	REYNALES-CABOT HEAD	1974	Y	Y	6	359		
CONSUMERS 13286	154	F	519.1	537.4	REYNALES-CABOT HEAD	1974	Y	Y	6	367		
CONSUMERS 13223	154	G	524.0	542.2	REYNALES-GRIMSBY	1973	Y	Y	6	414		
CONSUMERS 13306	154	I	516.0	534.3	THOROLD-CABOT HEAD	1974	Y	Y	6	379		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
CONSUMERS 13184	154	M	538.9	556.0	THOROLD-GRIMSBY	1972	Y	Y	5	288		
CONSUMERS 13301	154	Q	550.5	568.8	GRIMSBY-CABOT HEAD	1974	Y	Y	6	377		
CONSUMERS 13226	155	A	513.6	534.9	REYNALES-CABOT HEAD	1973	Y	Y	6	442		
CONSUMERS 13290	155	B	509.3	527.6	REYNALES-CABOT HEAD	1974	Y	Y	6	363		
CONSUMERS 13212	155	E	514.5	532.8	REYNALES-GRIMSBY	1973	Y	Y	6	314		
CONSUMERS 13202	155	F	526.1	544.4	REYNALES-GRIMSBY	1972	Y	Y	6	333		
CONSUMERS 13220	155	G	528.5	546.8	REYNALES-GRIMSBY	1973	Y	Y	6	204		
CONSUMERS 13234	155	I	522.4	540.7	REYNALES-GRIMSBY	1973	Y	Y	6	308		
CONSUMERS 13291	155	J	525.2	543.5	REYNALES-GRIMSBY	1974	Y	Y	6	386		
CONSUMERS 13727	155	J	514.3	531.3	THOROLD-CABOT HEAD	1980	Y	Y	13	761		
CONSUMERS 13166	155	N	541.0	558.7	GRIMSBY-CABOT HEAD	1972	Y	Y	5	334		
CONSUMERS 13210	155	O	535.5	554.1	REYNALES-CABOT HEAD	1973	Y	Y	6	309		
CONSUMERS 13222	155	P	541.0	559.3	REYNALES-CABOT HEAD	1973	Y	Y	5	180		
CONSUMERS 13298	155	P	539.2	557.5	THOROLD-CABOT HEAD	1974	Y	Y	6	368		
CONSUMERS 13299	155	P	547.1	565.4	THOROLD-CABOT HEAD	1974	Y	Y	6	519		
CONS. AMOCO 13065	155	T	542.5	558.4	REYNALES-GRIMSBY	1969	Y	Y	18	811		SLEEVES
CONSUMERS 13232	155	W	557.8	576.1	THOROLD-CABOT HEAD	1973	Y	Y	6	405		
CONS. PAN AM 13022	155	Y	549.6	567.8	GRIMSBY-CABOT HEAD	1967	Y	Y	5	292		
CONS. PAN AM 13051	155	Y	428.2	472.7	A1 CARBONATE-GUELPH	1968	Y	Y	19	565		
CONS. PAN AM 13051	155	Y	550.2	566.0	REYNALES-GRIMSBY	1968			0	565		
CONSUMERS 13201	156	A	524.9	542.8	THOROLD-CABOT HEAD	1972	Y	Y	5	312		
CONSUMERS 13211	156	A	517.2	535.2	REYNALES-CABOT HEAD	1973	Y	Y	6	339		
CONS. PAN AM 13023	156	C	423.7	463.0	A1 CARBONATE-GEULPH	1967	Y	Y	87	836		SLEEVES
CONS. PAN AM 13023	156	C	505.4	532.8	GUELPH-GRIMSBY	1967			0	836		SLEEVES
CONSUMERS 13025	156	E	517.2	532.5	THOROLD-CABOT HEAD	1970	Y	Y	5	301		
CONS. AMOCO 13068	156	F	522.7	541.0	REYNALES-CABOT HEAD	1969	Y	Y	5	258		
CONSUMERS 13308	156	G	537.1	555.3	IRONDEQUOIT-THOROLD	1974	Y	Y	7	421		
CONSUMERS 13297	156	I	526.7	545.0	THOROLD-CABOT HEAD	1974	Y	Y	6	426		
CONSUMERS 13183	156	J	530.4	548.6	THOROLD-CABOT HEAD	1972	Y	Y	5	322		
CONSUMERS 13203	156	K	534.9	553.2	REYNALES-CABOT HEAD	1972	Y	Y	6	303		
CONSUMERS 13204	156	L	540.3	558.7	THOROLD-CABOT HEAD	1972	Y	Y	6	404		
CONS. PAN AM 13039	156	P	426.7	445.0	A1 EVAPORITE-GUELPH	1968	Y	Y	44	857		SLEEVES
CONS. PAN AM 13039	156	P	1251.2	1269.5	CAMBRIAN	1968			0	857		SLEEVES
CONS. PAN AM 13052	156	S	544.4	558.1	GRIMSBY	1968	Y	Y	17	803		SLEEVES
CONSUMERS 13239	156	T	579.1	597.4	CABOT HEAD-QUEENSTON	1973	Y	Y	5	177		CARD & ANAL. READ 544.4-562.7M
CONSUMERS 13282	156	U	546.5	564.5	REYNALES-GRIMSBY	1974	Y	Y	6	365		
CONSUMERS 13240	156	X	556.1	572.9	THOROLD-CABOT HEAD	1973	Y	Y	5	416		
CONSUMERS 13006	157	A	506.9	524.3	THOROLD-CABOT HEAD	1970	Y	Y	6	123		
CONSUMERS 13122	157	B	534.9	553.2	REYNALES-CABOT HEAD	1970	Y	Y	5	212		
CONSUMERS 13121	157	C	413.6	431.9	A1.CARBONATE-GUELPH	1970	Y	Y	10	187		
CONSUMERS 13121	157	C	515.7	534.0	REYNALES-CABOT HEAD	1970			0	187		
CONCUMERS 13026	157	K	542.5	553.2	GRIMSBY-CABOT HEAD	1970	Y	Y	3	330		
CONSUMERS 13126	157	L	534.0	552.3	THOROLD-CABOT HEAD	1971	Y	Y	6	175		
CONSUMERS 13164	157	M	536.8	555.0	GRIMSBY-CABOT HEAD	1972	Y	Y	5	337		
CONS. PAN AM 13019	157	N	403.3	421.5	A1 CARBONATE-GUELPH	1968	Y	Y	23	823		SLEEVES
CONSUMERS 13015	157	Q	543.2	561.4	THOROLD-GRIMSBY	1971	Y	Y	5	183		
CONSUMERS 13042	157	R	541.0	559.3	REYNALES-GRIMSBY	1971	Y	Y	6	252		
CONSUMERS 13028	157	V	556.0	569.7	THOROLD-GRIMSBY	1970	Y	Y	4	331		
CONSUMERS 13011	157	X	562.1	576.1	THOROLD-GRIMSBY	1971	Y	Y	5	257		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
CONSUMERS 13027	157	X	549.6	560.5	THOROLD-GRIMSBY	1970	Y	Y	4	193		
CONSUMERS 13729	157	X	554.5	572.9	REYNALES-CABOT HEAD	1980	Y	Y	14	762		
CONSUMERS 13014A	157	Y	549.9	568.1	REYNALES-CABOT HEAD	1971	Y	Y	6	286		BOXES MARKED CONS. 13108
CONS. PAN AM 13037	158	A	416.1	439.5	GUELPH	1968	Y	Y	8	627		
CONS. PAN AM 13037	158	A	515.1	529.9	REYNALES-CABOT HEAD	1968			18	856		SLEEVES
CONSUMERS 13106	158	C	408.1	426.4	GUELPH	1971	Y	Y	11	267		
CONSUMERS 13106	158	C	520.9	539.2	REYNALES-CABOT HEAD	1971			0	267		
CONSUMERS 13274	158	C	399.3	406.9	A1 CARBONATE-GUELPH	1973	Y	Y	9	413		
CONSUMERS 13274	158	C	529.7	548.0	THOROLD-CABOT HEAD	1973			0	413		
CONSUMERS 13275	158	D	399.3	405.4	A1 CARBONATE-GUELPH	1973	Y	Y	8	351		
CONSUMERS 13275	158	D	533.4	551.4	REYNALES-CABOT HEAD	1973			0	351		
CONSUMERS 13135	158	E	403.9	412.1	GUELPH	1971	Y	Y	8	134		
CONSUMERS 13135	158	E	534.0	552.3	THOROLD-CABOT HEAD	1971			0	134		
CONSUMERS 13138	158	H	399.3	411.5	GUELPH	1971	Y	Y	9	440		
CONSUMERS 13138	158	H	526.4	542.5	ROCHESTER-GRIMSBY	1971			0	440		
CONSUMERS 13109	158	I	402.6	420.6	GUELPH	1971	Y	Y	12	269		
CONSUMERS 13109	158	I	534.3	552.6	REYNALES-CABOT HEAD	1971			0	269		
CONSUMERS 13272	158	I	394.4	413.0	GUELPH	1973	Y	Y	6	462		
CONSUMERS 13165	158	J	390.1	412.1	A1 CARBONATE-GUELPH	1972	Y	Y	7	342		
CONSUMERS 13139	158	K	402.3	412.4	A1 CARBONATE-GUELPH	1971	Y	Y	8	156		
CONSUMERS 13139	158	K	541.0	554.7	GRIMSBY-CABOT HEAD	1971			0	156		
CONSUMERS 13273	158	K	538.3	556.3	THOROLD-CABOT HEAD	1973	Y	Y	6	305		
CONSUMERS 13078	158	N	399.9	435.6	GUELPH	1971	Y	Y	16	617		
CONSUMERS 13078	158	N	543.2	561.4	REYNALES-CABOT HEAD	1971			0	617		549.9-551.4 MISSING
CONSUMERS 13077	158	W	564.2	576.4	REYNALES-GRIMSBY	1971	Y	Y	4	233		
CONSUMERS 13455	159	C	213.4	228.6	AMHERSTBURG-BOIS BLANC	1977	Y	Y	4	698		
CONSUMERS 13281	159	S	547.7	566.0	THOROLD CABOT HEAD	1974	Y	Y	4	420		
CONSUMERS 13123	160	Q	467.9	486.5	GUELPH-GOAT ISLAND	1970	Y	Y	9	182		
CONSUMERS 13123	160	Q	568.8	579.1	CABOT HEAD	1970			0	182		
ANSCHUTZ 2	161	M	560.8	578.8	REYNALES-CABOT HEAD	1978	Y	Y	14	693		
ANSCHUTZ 3	162	G	578.5	596.8	CABOT HEAD	1978	Y	Y	14	695		
ANSCHUTZ 4	162	T	565.7	584.0	ROCHESTER-CABOT HEAD	1978	Y	Y	14	694		
CONSUMERS 13116	162	Y	596.2	614.5	GRIMSBY-CABOT HEAD	1969	Y	Y	5	266		
CONS. AMOCO 13085	167	B	524.6	542.8	A2 ANHYDRITE-A1 EVAPORITE	1969	Y	Y	5	653		
CONSUMERS 13599	182	K	580.5	591.8	REYNALES-CABOT HEAD	1979	Y	Y	7	699		
CONSUMERS 13700	183	K	572.8	589.5	REYNALES-CABOT HEAD	1980	Y	Y	9	763		
CONS. PAN AM 13018	183	N	554.7	576.7	ROCHESTER-GRIMSBY	1968	Y	Y	28	802		SLEEVES
CONSUMERS 13600	183	R	582.5	599.3	REYNALES-CABOT HEAD	1979	Y	Y	14	746		
CONSUMERS 13701	183	V	342.0	351.0	BASS ISLAND-G SHALE	1980	N	Y	0	N/AV	Y	
CONSUMERS 13603	184	K	1262.5	1276.2	CAMBRIAN	1979	Y	Y	8	700		
CONSUMERS 13751	184	T	562.7	579.1	THOROLD-CABOT HEAD	1981	Y	Y	10	769		
CONS. AMOCO 13069	185	C	565.4	583.7	REYNALES-CABOT HEAD	1969	Y	Y	6	659		
CONSUMERS 13171	185	C	566.9	587.0	REYNALES-GRIMSBY	1972	Y	Y	6	326		
CONSUMERS 13010	185	D	568.5	586.7	THOROLD-CABOT HEAD	1971	Y	Y	6	237		
CONSUMERS 13750	185	M	580.0	591.7	REYNALES-GRIMSBY	1981	Y	Y	7	771		
CONS. PAN AM 13002	185	O	435.9	463.3	A2 CARBONATE-GUELPH	1967	Y	Y	35	858		SLEEVES
CONS. PAN AM 13002	185	O	553.2	571.5	REYNALES-CABOT HEAD	1967			5	630		
CONSUMERS 13688	185	Q	585.0	599.7	THOROLD-GRIMSBY	1980	Y	Y	8	749		
CONS. PAN AM 13000	186	B	559.3	575.5	GRIMSBY-CABOT HEAD	1968	Y	Y	20	804		SLEEVES

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
CONSUMERS 13749	186	H	568.0	585.9	THOROLD-CABOT HEAD	1981	Y	Y	9	770		
CONSUMERS 13747	186	J	552.3	570.9	THOROLD-CABOT HEAD	1981	Y	Y	10	768		
CONS. PAN AM 13041	187	D	568.5	586.7	THOROLD-CABOT HEAD	1968	Y	Y	23	810		SLEEVES
CONSUMERS 13755	220	W	650.0	667.0	GRIMSBY-CABOT HEAD	1981	Y	Y	14	766		
CONSUMERS 13350	221	P	516.3	534.9	A1 CARBONATE-GUELPH	1975	Y	Y	6	675		
CONSUMERS 13624	221	T	510.6	528.6	GUELPH	1979	Y	Y	13	747		
CONSUMERS 13257	222	R	509.6	528.8	GUELPH	1973	Y	Y	6	172		
CONSUMERS 13389	222	X	506.0	523.6	A2 ANHYDRITE-GUELPH	1976	Y	Y	10	697		
CONSUMERS 13351A	223	H	498.7	521.2	A1 CARBONATE-GUELPH	1975	Y	Y	8	567		
CONS. C.O.B. 31995A	226	L	517.6	535.8	A1 CARBONATE-GUELPH	1970	Y	Y	6	223		
MIDCON 16	228	M	432.8	463.6	A2 ANHYDRITE-GUELPH	1966	Y	Y	9	354		
CWP KENT 68-L-70	228	X	438.0	456.3	A1 CARBONATE-GUELPH	1968	Y	Y	25	852		SLEEVES
CWP KENT 68-L-71	228	X	429.8	481.9	A2 CARBONATE-GUELPH	1968	Y	Y	67	819		SLEEVES
CIGOL D'CLUTE 14	229	J	426.7	445.0	GUELPH	1969	Y	Y	6	657		
CIGOL D'CLUTE 16	229	N	435.9	445.0	GUELPH	1969	Y	Y	3	658		
CWP CORE TEST 12	233	K	46.0	93.3	HAMILTON-DUNDEE	1966	N	Y	13	691		
CWP CORE TEST 13	233	K	46.9	97.5	HAMILTON-DUNDEE	1966	N	Y	17	132		
CWP CORE TEST 14	233	L	51.8	88.7	HAMILTON-DUNDEE	1966	N	Y	13	128		
CWP CORE TEST 15	233	S	54.9	91.4	DUNDEE	1966	N	Y	12	133		
CWP 76-C-73	233	W	381.0	418.4	A2 CARBONATE-GUELPH	1976	Y	Y	13	689		
CWP 65-L-51	234	G	322.2	419.7	A2 CARBONATE-GUELPH	1965	Y	Y	97	843		SLEEVES
CWP CORE TEST 10	234	H	44.2	91.4	HAMILTON-DUNDEE	1966	N	Y	16	130		
CWP 66-L-59	234	L	327.7	408.4	A2 CARBONATE-GUELPH	1966	Y	Y	26	221		
CWP CORE TEST 6	234	L	42.7	72.5	DUNDEE-LUCAS	1966	N	Y	10	113		
CWP CORE TEST 7	234	L	37.2	69.2	DUNDEE	1966	N	Y	11	634		
CWP CORE TEST 1	234	M	32.6	81.4	DUNDEE-LUCAS	1966	N	Y	17	117		
CWP CORE TEST 3	234	M	45.7	64.6	DUNDEE-LUCAS	1966	N	Y	7	114		
CWP CORE TEST 4	234	M	41.8	69.6	DUNDEE-LUCAS	1966	N	Y	10	121		
CWP CORE TEST 9	234	M	39.6	65.8	DUNDEE-LUCAS	1966	N	Y	9	135		
CWP CORE TEST 2	234	N	35.1	81.4	DUNDEE	1966	N	Y	15	120		
CWP CORE TEST 8	234	N	46.3	84.7	HAMILTON-LUCAS	1966	N	Y	13	127		
CWP CORE TEST 11	234	O	46.6	91.7	HAMILTON-DUNDEE	1966	N	Y	15	129		
CWP CORE TEST 5	234	R	44.5	70.4	DUNDEE	1966	N	Y	9	118		
CWP 68-L-67	234	U	385.6	403.9	GUELPH	1968	Y	Y	24	820		SLEEVES
CWP 76-L-72	236	E	392.9	411.6	A2 ANHYDRITE-GUELPH	1976	Y	Y	7	690		
CWP 68-L-69	236	W	381.0	399.3	A2 CARBONATE-GUELPH	1968	Y	Y	25	853		SLEEVES
CONS. C.O.B.31990	237	O	434.3	452.6	GUELPH	1970	Y	Y	6	147		
CONS. C.O.B.31991	238	A	495.3	508.4	GUELPH	1970	Y	Y	4	145		
TEXAS MIDCON 1A	238	D	453.5	499.3	A2 CARBONATE-GUELPH	1958	N	Y	11	284		
PEMBINA CAN-SUP	244	I	506.9	525.3	A1 CARBONATE-GUELPH	1981	Y	Y	29	754		
PEMBINA CAN-SUP	244	I	667.0	685.0	GRIMSBY-CABOT HEAD	1981			0	754		
CONS. C.O.B.31994	283	A	496.8	514.2	A1 CARBONATE-GUELPH	1970	Y	Y	6	222		
CONSUMERS 13730	284	U	1227.3	1233.5	SHADOW LAKE-CAMBRIAN	1980	N	Y	0	N/AV	Y	
CHIEFCO ONT-H10	285	U	472.7	483.4	GUELPH	1969	Y	Y	3	606		BLUE CREEK, LAKE ERIE 5
CWP CANSO 69-LT-2	286	N	380.1	398.4	A2 CARBONATE-GUELPH	1969	Y	Y	19	844		SLEEVES
PEMBINA 2	289	S	335.3	353.4	A1 CARBONATE-GUELPH	1982	Y	Y	15	781		
PEMBINA CAN-SUP	289	T	325.0	343.0	A1 CARBONATE-GOAT ISLAND	1981	Y	Y	15	756		
PEMBINA CAN-SUP 3	289	W	311.2	329.4	A2 CARBONATE-GUELPH	1981	Y	Y	16	753		
PLACE GAS & OIL 1	302	C	652.6	739.1	COBOURG-COBOCONK	1959	N	Y	0	N/AV	N	

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
PLACE GAS & OIL 2	302	C	618.1	728.2	COLLINGWOOD-COBOCONK	1959	N	Y	0	N/AV	N	
PLACE GAS & OIL 4	302	C	613.6	669.6	COLLINGWOOD-COBOURG	1960	Y	Y	0	N/AV	N	
PLACE GAS & OIL 5	302	D	622.7	654.7	COLLINGWOOD-COBOURG	1960	Y	Y	31	851		SLEEVES
PEMBINA CAN-SUP	308	B	308.0	326.3	A2 ANHYDRITE-GUELPH	1981	Y	Y	15	767		
PEMBINA CAN-SUP	308	L	348.0	363.7	A1 CARBONATE-GUELPH	1982	Y	Y	14	780		
PEMBINA CAN-SUP 2	308	W	312.0	328.7	A1 CARBONATE	1981	Y	Y	14	758		
ANSCHUTZ 4	309	X	344.4	363.2	A1 CARBONATE-GUELPH	1978	Y	Y	15	692		
KEWANEE-PELEE 6	351	M	393.2	394.4	GUELPH	1959	N	Y	0	N/AV	N	
PEMBINA CAN-SUP 4	353	H	305.5	323.5	A2 ANHYDRITE-GUELPH	1981	Y	Y	15	757		
PEMBINA ET AL	353	S	288.1	307.6	A1 CARBONATE-GUELPH	1981	Y	Y	16	765		
PEMBINA #1	353	V	315.0	333.3	A1 CARBONATE-GUELPH	1983	Y	Y	16	875		
ATLAS 7	354	W	295.0	311.3	GUELPH	1968	Y	Y	5	224		
ATLAS 6	354	X	283.0	306.5	GUELPH	1967	Y	Y	8	105		
PEMBINA 3	376	J	309.0	327.4	A1 CARBONATE-GUELPH	1982	Y	Y	15	778		
PEMBINA ET AL	377	B	316.0	332.0	A1 CARBONATE-GUELPH	1982	Y	Y	14	779		
PEMBINA CAN-SUP 4	409	M	297.0	315.5	A2 ANHYDRITE-GUELPH	1981	Y	Y	15	755		

** COUNTY LAKE ST. CLAIR

* TOWNSHIP

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
LAKE ST. CLAIR 1	527	S	466.6	474.0	GUELPH	1955	N	Y	0	NO	N	ALL CARDS FOR
LAKE ST. CLAIR 4	527	S	454.5	470.0	GUELPH	1955	N	Y	0	NO	N	
LAKE ST. CLAIR 7	527	S	417.0	447.1	A2 CARBONATE-GUELPH	1956	N	Y	0	NO	N	LAKE ST. CLAIR
LAKE ST. CLAIR 6	527	V	429.8	432.8	A2 CARBONATE	1955	N	Y	0	NO	N	
LAKE ST. CLAIR 6	527	V	453.2	456.3	GUELPH	1955			0	NO	N	SHOW LAB CORE #
LAKE ST. CLAIR 6	527	V	857.1	859.5	COBOURG	1955			0	NO	N	
LAKE ST. CLAIR 6	527	V	1120.7	1126.8	SHADOW LAKE-PRECAMBRIAN	1955			0	NO	N	BUT NO CORE HERE

** COUNTY DIST. OF ALGOMA

* TOWNSHIP JOCELYN

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
O.G.S. 83-6	67	A	43.3	349.9	BLUE MOUNTAIN-PRECAMBRIAN	1983	N	Y	0	CO.	Y	CORE @ OGS TORONTO

** COUNTY DIST. OF COCHRANE

* TOWNSHIP

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
ALBANY RIVER B.H. #1	?	?	15.7	30.3			N	Y	3	629		NO LAT. LONG.
ALBANY RIVER B.H. #2	?	?	27.5	47.2			N	Y	5	638		NO LAT. LONG.
ALBANY RIVER E-7-A	?	?	22.9	60.4			N	Y	11	510		NO LAT. LONG.
AQUIT. SOGEPET ET AL	?	?	266.7	592.8	DEVONIAN-PRECAMBRIAN	1971	N	Y	110	417		LAT.510115 LONG.823330 #85022
BIGLOW DAM SITE BG-1	?	?	9.6	53.3			N	Y	12	479		LAT.520900 LONG.821900 #85071
BIGLOW DAM SITE BG-2	?	?	16.0	55.8			N	Y	12	509		LAT.520900 LONG.821900 #85072
BIGLOW DAM SITE BG-3	?	?	30.0	36.9			N	Y	2	612		LAT. 520900 LONG.821900 #85072
BLACK BEAR DAM BB-1	?	?	24.9	45.1			N	Y	6	614		LAT.514700 LONG.850500 #85069
BUFFALO SKIN 4	?	?	12.2	31.7			N	Y	5	119		NO LAT. LONG. DH-BU-2
BUFFALO SKIN RIVER 1	?	?	10.5	49.6		1968	N	Y	9	640		LAT.514500 LONG.861000 #85042
BUFFALO SKIN RIVER 3	?	?	27.7	34.1		1968	N	Y	1	621		LAT.514500 LONG.861000 #85044
CAMPBELL LAKE 1 DDH1	?	?	79.2	344.1	CRETACEOUS-PRECAMBRIAN	1949	Y	Y	17	465		LAT.501830 LONG.820930 #85002
CHARD DDH-1 DHCD-1	?	?	3.0	45.7		1968	N	Y	9	450		LAT.511600 LONG.855400 #85058

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
CHARD DDH-2 DHCD-2	?	?	30.8	42.6		1968	N	Y	3	451		LAT.511600 LONG.855400 #85059
CHARD DDH-3 DHCD-3	?	?	26.4	62.3		1968	N	Y	6	452		LAT.511600 LONG.855400 #85060
CHARD DDH-4 DHCD-4	?	?	27.4	63.9		1968	N	Y	8	453		LAT.511600 LONG.855400 #85061
CHARD DDH-5 DHCD-5	?	?	30.6	81.7		1968	N	Y	10	454		LAT.511600 LONG.855400 #85062
CONS. ONAKWAHEGAN 2	?	?	43.0	209.4	DEVONIAN-PRECAMBRIAN	1972	Y	Y	92	841		SLEEVES LAT.511918 LONG.812638
CORAL RAPIDS 1-S-1	?	?	16.8	48.8			N	Y	4	470		LAT.501415 LONG.814015
CORAL RAPIDS 10-K-1	?	?	7.6	38.1			N	Y	4	496		LAT.501415 LONG.814015
CORAL RAPIDS 10-L-1	?	?	15.2	83.8			N	Y	3	207		LAT.501415 LONG.814015
CORAL RAPIDS 10-L-2	?	?	0.0	45.7			N	Y	2	487		LAT.501415 LONG.814015
CORAL RAPIDS 10-L-3	?	?	15.2	83.8			N	Y	7	615		LAT.501415 LONG.814015
CORAL RAPIDS 10-L-4	?	?	7.6	76.2			N	Y	6	483		LAT.501415 LONG.814015
CORAL RAPIDS 10-M-1	?	?	0.0	22.9			N	Y	2	466		LAT.501415 LONG.814015
CORAL RAPIDS 10-R-1	?	?	30.5	61.0			N	Y	3	493		LAT.501415 LONG.814015
CORAL RAPIDS 10-R-2	?	?	7.6	45.7			N	Y	3	500		LAT.501415 LONG.814015
CORAL RAPIDS 10-R-3	?	?	24.4	54.9			N	Y	3	498		LAT.501415 LONG.814015
CORAL RAPIDS 10-R-4	?	?	30.5	53.3			N	Y	4	497		LAT.501415 LONG.814015
CORAL RAPIDS 10-S-1	?	?	22.9	53.3			N	Y	3	494		LAT.501415 LONG.814015
CORAL RAPIDS 10-S-2	?	?	25.9	85.0			N	Y	7	616		LAT.501415 LONG.814015
CORAL RAPIDS 11-L-2	?	?	0.0	30.5			N	Y	3	495		LAT.501415 LONG.814015
CORAL RAPIDS 11-S-2	?	?	0.0	53.9			N	Y	4	507		LAT.501415 LONG.814015
CORAL RAPIDS 13-L-1	?	?	0.0	30.5			N	Y	1	502		LAT.501415 LONG.814015
CORAL RAPIDS 6-K-1	?	?	0.0	38.1			N	Y	3	486		LAT.501415 LONG.814015
CORAL RAPIDS 6-K-2	?	?	0.0	30.5			N	Y	3	485		LAT.501415 LONG.814015
CORAL RAPIDS 7-K-1	?	?	0.0	38.1			N	Y	3	467		LAT.501415 LONG.814015
CORAL RAPIDS 7-L-1	?	?	0.0	38.1			N	Y	1	508		LAT.501415 LONG.814015
CORAL RAPIDS 7-L-2	?	?	0.0	61.0			N	Y	5	501		LAT.501415 LONG.814015
CORAL RAPIDS 7-L-3	?	?	0.0	7.6			N	Y	1	506		LAT.501415 LONG.814015
CORAL RAPIDS 7-L-4	?	?	0.0	7.6			N	Y	1	505		LAT.501415 LONG.814015
CORAL RAPIDS 7-L-5	?	?	0.0	7.6			N	Y	1	504		LAT.501415 LONG.814015
CORAL RAPIDS 7-M-1	?	?	0.0	43.9			N	Y	5	499		LAT.501415 LONG.814015
CORAL RAPIDS 7-M-2	?	?	0.0	111.3			N	Y	9	476		LAT.501415 LONG.814015
CORAL RAPIDS 8-K-1	?	?	0.0	30.5			N	Y	3	488		LAT.501415 LONG.814015
CORAL RAPIDS 8-L-1	?	?	0.0	38.1			N	Y	3	468		LAT.501415 LONG.814015
CORAL RAPIDS 8-M-1	?	?	0.0	22.9			N	Y	3	489		LAT.501415 LONG.814015
CORAL RAPIDS 8-O-1	?	?	0.0	41.1			N	Y	4	471		LAT.501415 LONG.814015
CORAL RAPIDS C-X-1	?	?	0.0	32.0			N	Y	2	484		LAT.501415 LONG.814015
CORAL RAPIDS C-X-2	?	?	0.0	42.6			N	Y	3	475		LAT.501415 LONG.814015
CORAL RAPIDS C-X-3	?	?	0.0	39.6			N	Y	3	474		LAT.501415 LONG.814015
CORAL RAPIDS C-X-4	?	?	0.0	45.7			N	Y	4	473		LAT.501415 LONG.814015
CORAL RAPIDS C-X-5	?	?	0.0	53.3			N	Y	6	472		LAT.501415 LONG.814015
CORAL RAPIDS C-X-6	?	?	0.0	44.2			N	Y	1	477		LAT.501415 LONG.814015
CORAL RAPIDS C-X-9	?	?	0.0	16.8			N	Y	1	478		LAT.501415 LONG.814015
CORAL RAPIDS KERR AD	?	?	40.5	157.0			N	Y	57	698		LAT.505700 LONG.810800
CORAL RAPIDS L-ND-1	?	?	0.0	61.0			N	Y	8	492		LAT.501415 LONG.814015
CORAL RAPIDS L-ND-2	?	?	0.0	53.3			N	Y	3	491		LAT.501415 LONG.814015
CORAL RAPIDS L-ND-3	?	?	0.0	76.2			N	Y	6	490		LAT.501415 LONG.814015
CORAL RAPIDS S-K-1	?	?	0.0	15.2			N	Y	1	469		LAT.501415 LONG.814015
CORAL RAPIDS S-N-1	?	?	0.0	36.6			N	Y	6	503		LAT.501415 LONG.814015
FISHING DAM FH-2	?	?	18.3	40.4			N	Y	3	622		LAT.515600 LONG.824300 #85075

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
GREY GOOSE G-2	?	?	6.1	41.8		1968	N	Y	3	575		LAT.504630 LONG.812430 #85033
HATSITE 1 DH-HT-1	?	?	16.9	61.2		1968	N	Y	7	456		LAT.511800 LONG.835700 #85052
HATSITE 2 DH-HT-2	?	?	26.3	42.4		1968	N	Y	2	457		LAT.511800 LONG.835700 #85053
HATSITE 3 DH-HT-3	?	?	19.7	45.7		1968	N	Y	1	458		LAT.511800 LONG.835700 #85054
HATSITE 4 DH-HT4	?	?	30.2	61.6		1968	N	Y	5	459		LAT.511800 LONG.835700 #85055
HATSITE 5 DH-HT5	?	?	26.5	44.2		1968	N	Y	4	460		LAT.511800 LONG.835700 #85056
HATSITE 6 DH-HT-6	?	?	8.2	51.2		1968	N	Y	5	461		LAT.511800 LONG.835700 #85057
HB 69-1	?	?	53.3	289.6			N	Y	35	225		NO LAT. LONG.
HOLE W-1	?	?	59.7	88.4			N	Y	8	516		NO LAT. LONG.
HOLE W-2	?	?	57.9	76.8			N	Y	6	517		
HOLE W-72-1	?	?	78.3	105.5			N	Y	9	455		NO LAT. LONG.
JAAB LAKE 1 DDH-2	?	?	44.8	551.7	DEVONIAN-SILURIAN	1950	N	Y	72	427		LAT.511045 LONG.825630 DESCR.
KOMINCO 49204	?	?	71.6	120.4			N	Y	9	515		NO LAT. LONG.
KOMINCO 49212	?	?	61.0	144.8			N	Y	20	573		NO LAT. LONG.
MARINER-LOWLANDS # 1	?	?	143.6	1396.6	PRECAMBRIAN	1971	N	Y	0	CO.	N	
MOOSE FACTORY 1 DDH1	?	?	25.9	143.3	DEVONIAN		N	Y	14	619		LAT.511500 LONG.803700 DESCR.
MOOSE FACTORY 2 DDH2	?	?	28.7	76.2	DEVONIAN-PRECAMBRIAN		N	Y	5	480		LAT.511500 LONG.803700 DESCR.
O.G.S. 83-8	?	?	12.0	624.5	OVERBURDEN-PRECAMBRIAN	1983	N	Y	0	CO.	N	CORE @ MNDM TIMMINS
PROSPECT.LTD SUTT.LK	?	?	103.7	218.6			N	Y	1	740		NO LAT.LONG. SECTIONS ONLY
PROSPECT.LTD SUTT.LK	?	?	106.0	195.0			N	Y	1	741		NO LAT.LONG. SECTIONS ONLY
PROSPECT.LTD SUTT.LK	?	?	122.0	243.0			N	Y	1	744		NO LAT.LONG. SECTIONS ONLY
PROSPECT.LTD SUTT.LK	?	?	139.0	270.0			N	Y	1	743		NO LAT.LONG. SECTIONS ONLY
PROSPECT.LTD SUTT.LK	?	?	186.0	290.0			N	Y	1	742		NO LAT.LONG. SECTIONS ONLY
PUSKWUCHE PT.1 DDH-3	?	?	6.7	467.9		1950	N	Y	68	201		LAT.514630 LONG.803930 #85005
RENISON 1	?	?	9.1	74.7		1968	N	Y	11	527		LAT.505745 LONG.810715 #85032
STOOPING DAM SO-1	?	?	1.1	36.7			N	Y	11	636		LAT.521200 LONG.815400 #85063
STOOPING DAM SO-2	?	?	3.8	23.5			N	Y	6	652		LAT.521200 LONG.815400 #85064
STOOPING DAM SO-2	?	?	23.5	45.1					7	633		
STOOPING DAM SO-3	?	?	9.1	36.9			N	Y	9	482		LAT.521200 LONG.815400 #85065
STOOPING DAM SO-4	?	?	15.6	29.0			N	Y	4	481		LAT.521200 LONG.815400 #85066
STOOPING DAM SO-5	?	?	27.6	36.9			N	Y	3	613		LAT.521200 LONG.815400 #85067
WABIMEG 1 DH-WB-1	?	?	19.8	55.5		1968	N	Y	8	446		LAT.513900 LONG.853300 #85047
WABIMEG 2 DH-WB-2	?	?	3.1	45.7		1968	N	Y	11	447		LAT.513900 LONG.853300 #85048
WABIMEG 3 DH-WB-3	?	?	15.3	24.2		1968	N	Y	3	445		LAT.513900 LONG.853300 #85049
WABIMEG 4 DH-WB-4	?	?	37.0	63.9		1968	N	Y	6	448		LAT.513900 LONG.853300 #85050
WABIMEG 5 DH-WB-5	?	?	22.9	30.5		1968	N	Y	2	444		LAT.513900 LONG.853300 #85051
• TOWNSHIP ARDAGH												
CONS. ET AL ARDAGH 1	?	?	59.1	68.9		1972	Y	Y	119	821		SLEEVES LAT.511714 LONG.811405
CONS. ET AL ARDAGH 1	?	?	102.7	121.0		1972			0	821		
CONS. ET AL ARDAGH 1	?	?	158.5	242.6		1972			0	821		
• TOWNSHIP GREER												
CONS. ET AL GREER 1	?	?	342.9	344.4	PRECAMBRIAN	1972	Y	Y	1	666		LAT.511719 LONG.810219 #85500
• TOWNSHIP HAMBLEY												
AQUIT. SOGEPET ET AL	?	?	254.8	259.4	DEVONIAN	1973	Y	Y	0	LOST	N	LAT.501516 LONG.803548 HAMBLY1
AQUIT. SOGEPET ET AL	?	?	498.7	507.2	CAMBRIAN	1973			3	667		
AQUIT. SOGEPET ET AL	?	?	525.8	527.3	CAMBRIAN-PRECAMBRIAN	1973			0	667		

WELLNAME	LOT/ BLOCK	CONC/ TRACT	CORE TOP	CORE BOTTOM	FORMATION CORED	YEAR DRILL	CORE ANAL	WELL CARD	BOXES/ SLEEVE	CORE #	CORE CHIPS	REMARKS
* TOWNSHIP MORROW												
O.G.S. ONAKAWANA B85	?	?	5.5	321.0	OVERBURDEN-PRECAMBRIAN	1985	N	Y	0	CO.	Y	CORE @ MNDM TIMMINS
** COUNTY DIST. OF GERALDTON												
* TOWNSHIP												
PYM DAMSITE DH-PY-3	?	?	33.7	43.9		1968	N	Y	3	635		LAT.521200 LONG.861600
PYM DAMSITE DH-PY-4	?	?	34.7	49.1		1968	N	Y	5	644		LAT.521200 LONG.861600
** COUNTY DIST. OF KENORA												
* TOWNSHIP												
AQUIT.SOG.ETAL PEN-1	?	?	217.3	1032.4	DEVONIAN-PRECAMBRIAN	1969	N	Y	157	428		LAT.564507 LONG.884515 #85014
AQUIT.SOG.ETAL PEN-2	?	?	170.7	440.7		1970	Y	Y	44	817		LAT.564625 LONG.884725 #85018
BLACK BEAR BH-BB-2	?	?	9.4	53.9			N	Y	10	618		NO LAT. LONG. #85068